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Section 19

Push Buttons and Operator Interface

Selection Guide
Push Buttons and Pilot Lights Control Stations Pendant Stations Tower Lights and Beacons
22 and 30 mm Most Common Complete Operators
XB4–XB5 Common Operators, Complete with Contact Blocks Type K, SK Common Operators, Complete with Contact Blocks
22 mm Push Buttons
XB4 Complete Devices XB5 Complete Devices XB5R Plastic and XB4R Metal Wireless, Batteryless Push Buttons XB7 Push Buttons
30 mm Push Buttons
16 mm Push Buttons
XB6 Complete Devices Rotary Cam Switches
Rotary Cam Switches
Rotary Cam Switches Control Stations and Enclosures XAL 22 mm Control Stations XAP 22 mm Enclosures and Accessories 9001B Standard Duty Control Stations 30 mm Control Stations and Enclosures
Rotary Cam Switches Control Stations and Enclosures XAL 22 mm Control Stations XAP 22 mm Enclosures and Accessories 9001B Standard Duty Control Stations 30 mm Control Stations and Enclosures 30 mm Enclosures
Rotary Cam Switches Control Stations and Enclosures XAL 22 mm Control Stations XAP 22 mm Enclosures and Accessories 9001B Standard Duty Control Stations 30 mm Control Stations and Enclosures 30 mm Enclosures Pendant Stations Wireless Remote Control System Type BW Pendant Stations XAC Standard Duty Pistol Grips, Enclosures, Contact Blocks
Rotary Cam Switches Control Stations and Enclosures XAL 22 mm Control Stations XAP 22 mm Enclosures and Accessories 9001B Standard Duty Control Stations 30 mm Control Stations and Enclosures 30 mm Enclosures Pendant Stations Wireless Remote Control System Type BW Pendant Stations XAC Standard Duty Pistol Grips, Enclosures, Contact Blocks Type XACA Worksheet

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Type J Compact Light

XVL Compact Light

16 mm XB6

XE

Pendant Stations





Type A Foot Switch

Rotary Cam Switch







Push Buttons and Pilot Lights



Refer to Catalogs DIA5ED2121212EN*, DIA5ED2121213EN**, DIA5ED2120503EN***, and 9001CT1103****

Family XR4 XR! 9001SK 900163 *22 mm Push Button *22 mm Push Button **22mm Push Button ***30 mm Push Button ***30 mm Push Button ***30 mm Push Button Type of Product (metal) (nlastic) (nlastic) (metal) (plastic) (metal, square) Mounting Hole 31 mm 31 mm 31 mm 22.5 mm 22.5 mm 22.5 mm Diamete (1.22 in) (1.22 in) (1.22 in) LIL Listed File E164353 ULL isted File E164353 UL LISted File E 164353 CCN NKCR UL Recognized File E164353. CCN NKCR2 UL File E164353, CCN NKCR UL File E78403. CCN NKCR UL File E78403. CCN NKCR UL File E78403. CCN NKCR CCN NKCR UL Recognized File E164353., CCN NKCR2 Approvals CSA File LR44087. Class 3211-03 CSA File LR44087. CSA File LR44087-122 CSA File LR25490. CSA File LR25490. CSA File LR25490. Class 3211-03 CE Marked Class 3211-03 CE Marked Class 3211-03 CE Marked Class 3211-03 Class 3211-03 CE Marked RoHS Compliant CE Marked CE Marked RoHS Compliant RoHS Compliant RoHS Compliant **RoHS** Compliant RoHS Compliant EN/IEC 60947-1, EN/IEC 60947-5-1 for push buttons, pilot lights, illuminated push buttons and selector EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5 EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5 EN/IEC 60947-1 EN/IEC 60947-1 EN/IEC 60947-1 switches EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching EN/ISO 13850: 2006 (trigger action and mechanical latching EN/IEC 60204-1 and EN/ISO 13850 for Emergency Stop trigger action push buttons EN/IEC60947-5-1 EN/IEC60947-5-1 EN/IEC60947-5-1 emergency stop push emergency stop push buttons) button). Conforming to EN/IEC 60364-5-53 (emergency switching of mechanical latching push EN/IEC 60364-5-53 (emergency switching of mechanical latching push Standards EN/IEC60947-5-4 EN/IEC60947-5-4 EN/IEC60947-5-4 buttons) buttons) EN81-1 (emergency stop trigger action and mechanical latching chanical latching push buttons with mechanica state indicator) JIS C 4520 JIS C 4520 JIS C 4520 and 852 JIS C 4520 and 852 JIS C 4520 and 852 UL 508 UL 508 UL 508 UL 508 UL 508 UL 508 CSA C22.2 No.14 CSA C22.-2 No.14 CSA C22 No.14 CSA C22.2 No.14 CSA C22.2 No.14 CSA C22.2 No.14 GOST GOST CCC CCC CCC GB 14048.5 for all XB7 range IP65, IP69, IP69K IP65, IP69, IP69K IP54, IP65 IP65 IP65 IP66 Degree of Protection IP66 for booted IP66 for booted NEMA 1, 2, 3, 3R, 4, 4X, 12 NEMA 1, 2, 3, 3R, 4, 4X, NEMA 1, 2, 3, 3R, 4, 12, NEMA 1, 2, 3, 4, 4X, 12, 13 NEMA 3, 4, 12 NEMA 1, 2, 3, 3R, 4, 12, 13 12.13 Operating Temperature F° -40 to 158 (-40 to 70) -40 to 158 (-40 to 70) -13 to 158 (-25 to 70) -22 to 140 (-30 to 60) -22 to 140 (-30 to 60) -22 to 140 (-30 to 60) (C°) Storage Temperature F° -40 to 158 (-40 to 70) (C°) Electric Shock Class I Class I Class II Class II Class II Protection Electrical Consumption Illuminated Push 24 Vac/Vdc: 18 mA 24 Vac/Vdc: 18 mA Buttons: 24V - 18mA 120V - 12mA 230V - 22mA 120 Vac: 14 mA 120 Vac: 14 mA Incandescent and LED Incandescent and LED bulbs. For ratings, see bulbs. For ratings, see I FD Incandescent Pilot Lights 24V - 20mA 120V - 18mA Standard Light Modules, page 19-63. Standard Light Modules, page 19-63. 240 Vac: 14 mA 240 Vac: 14 mA 230V - 16mA AC-15: B600 AC-14; D300 Ue = 240 Vac and le = AC-15; B600 Ue = 600 Vac and Ie = 1.2 AUe = 240 Vac and Ie = 3 AUe = 120 Vac and Ie = 6 AUe = 600 Vac and le = 1.2 AUe = 240 Vac and le = 3AUe = 120 Vac and le = 6A0.3A Ue = 120 Vac and le = 0.6A AC-15; A600 Continuous 10 A AC-15; A600 Continuous 10 A AC-15; A600 Continuous 10 A Continuous 10 A Continuous 10 A Rated Continuous 4 A Operational DC-13; Q600 Ue = 600 Vdc and le = 0.1 A Ue = 250 Vdc and DC-13; Q600 Ue = 600 Vdc and le = 0.1 A Ue = 250Vdc and DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250 Vdc and DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250 Vdc and DC-13; Q600 Ue = 600 Vdc and le = 0.1 A Ue = 250 Vdc and Characteristics DC-13; R300 Ue = 250 Vdc and le = 0.1A le = 0.27 AUe = 125 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.27 A Ue = 125 Vdc and = 125 Vdc and le = 0.22A le = 0.55 A le = 0.55 A le = 0.55 A e = 0.55 A le = 0.55 A IP20 Fingersafe Screw or Spring Terminal Connection IP20 Fingersafe Screw Terminal Туре Screw and captive Screw Terminal Spring Terminal clamp terminal 1 x 24 AWG (0.22 mm²) min. 2 x 14 AWG (2.5 mm²) max. 2 x 16 AWG (1.5 mm²) max. 1 x 24 AWG (0.22 mm²) min. 2 x 14 AWG (2.5 mm²) max. 2 x 16 AWG (1.5 mm²) max. 1 x 24 AWG (0.22 mm²) 1 x 24 AWG (0.2 2mm²) connections Faston clip connections (pilot lights) 1 x 24 AWG (0.22 mm²) min. 2 x 16 AWG (1.5 mm²) min. 2 x 16 AWG (1.5 mm²) Cable Size 2 x 16 AWG (1.5 mm²) max

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Push Button Selection Guide

max

KX, page

max

Type SK, page 19-55

Type K, page 19-47

Digest Location

XB4, page 19-10



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Selection Guide

Control Station Selection Guide

Family	XAL	ХАР	9001B
	XALDO2	XAPA1100	NEMA 1 Surface Mounting 9001BG••NEMA 1 Flush Mounting 9001BF••
	XALDU2	XAPA1104	NEMA 4 9001BW••
Type of Product/Material	XALD—Polycarbonate XALK—Polycarbonate	XAPA—glass filled polyester XAPG—die cast zinc XAPE—anodized aluminum	9001BG—plastic cover 9001BF—stainless steel 9001BW—die cast zinc 9001BR—cast aluminum
Number of holes	1 to 3	0 to 16	1 to 3
Type of Operators	XB5 (22mm)	XB5 (22mm)	Built in
Available without Operators	Yes	Yes	No
Available with Operators	Yes	No	Yes
Approvals	UL File E164353 CCN NKCR CSA File LR 44087 Class 3211-03	UL File E164353 CCN NKCR CSA File LR 44087 Class 2211-03	UL File E78403 CCN NKCR CSA File LR 25490 Class 3211-03
Conforming to Standards	CE Marked EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, JIS C 4520 UL 508 CSA C22.2 No.14	CE Marked EN/IEC 60947-5.1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, JJS C 4520 UL 508 CSA C22.2 No.14	CE Marked EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, JIS C 4520 UL 508 CSA C22.2 No.14
Degree of Protection	1, 4, 4X, 13 IP65 IP66 - Booted	XAPA - 4, 4X, 12, IP65 XAPG - 4, 12, IP65 XAPE - 4, 4X, 12, IP65	9001BG - 1 9001BF - 1 9001BW - 4 9001BR - 7, 9
Operating Temperature F° (C°)	-13 to 158 (-25 to 70)	-13 to 158 (-25 to 70)	
Storage Temperature F° (C°)	-40 to 158 (-10 to 70)	-40 to 158 (-10 to 70)	
Cable Entry	No. 13 knock out	XAPA—undrilled XAPG—Tapped 3/4NPT XAPE—flush mount (n/a)	9001BG—1/2 &3/4 knockout 9001BF—N/A 9001BW—1/2-14NPT 9001BR—1/2-14NPT
Digest Location	XAL, page 19-72	XAP, page 19-72	9001B, page 19-74
	•		• •



Pendant Station Selection Guide

Family	ZAR eXL Hoist Compact	ZAR Pocket Remote	9001BW	XACA2	XACA0
Type of Product	*Wireless Pendant	*Wireless Remote	**2-Button Pendant	**2-Button Pistol Grip Pendant	**General Purpose Pendant
Number of operators	6 motion, 2 auxilliary	3, 4, 6, 8, and 10	2	2	2, 3, 4, 6, 8, 12
Approvals	UL/CSA, CE, EAC	UL, CE	UL File E78403 CNN NKCR CSA File LR25490 Class 3211-03	UL File E164353 CNN NKCR CSA File LR 44087 Class 3211-03	UL File E164353 CNN NKCR CSA File LR 44087 Class 3211-03
Conforming to Standards	For receiver: EN 300 328 V2.1.1: 2016-11 EN 301 489-1 V2.1.1: 2017-02 EN 301 489-17 V3.1.1: 2017-02 EN 50050-1:2006 + A11: 2009 EN 50051: 2012 EN ISO 13849-1:2016 For transmitter: EN 300 440 V2.1.1: 2017-03 EN 301 489-3 V2.1.1: 2017-03 EN 301 489-3 V2.1.1: 2017-02 EN 301 489-3 V2.1.1: 2017-02 EN 301 489-3 V2.1.1: 2017-02 EN 301 489-3 V2.1.1: 2017-02 EN 300 1403-3 V2.1.1: 2017-02 EN 50051: 2010 EN 50581: 2012 EN ISO 13849-1:2016	For receiver: EN 300 328 V2.1.1: 2016-11 EN 301 489-1 V2.1.1: 2017-02 EN 301 489-1 V2.1.1: 2017-02 EN 60950-1:2006 + A11: 2009 EN 50581: 2012 For transmitter: EN 300 440 V2.1.1: 2017-03 EN 301 489-3 V2.1.1: 2017-02 EN 301 489-3 V2.1.1: 2017-03 EN 60950-1:2006 + A11: 2009 + A1: 2010 + A12: 2011 EN 62479: 2010 EN 50581: 2012	CE Marked	EN/IEC 60947-5-1, EN/IEC 60204-32, EN/IEC 60947-5-5, and EN/ISO 13850 (for versions with trigger action emergency stop) UL 508 CSA C22-2 No. 14 RoHS compliant	EN/IEC 60947-5-1, EN/IEC 60947-5-5, and EN/ISO 13850 (for versions with trigger action emergency stop) UL 508 CSA C22-2 No. 14 RoHS compliant
Degree of Protection	Transmitter: IP65/NEMA 4, Receiver: IP66	IP67 for transmitter and IP66 for receiver	NEMA 1, 3, 3R, 4, 4X	NEMA 1, 4, 4X, 5 IP65 IK08	NEMA 1, 4, 4X, 5 IP65 IK08
Operating Temperature F° (C°)	-4 to 131 (-20 to 55)	-4131 °F (-2055 °C)	-13 to 140 (-25 to 60)	-13 to 140 (-25 to 60)	-13 to 140 (-25 to 60)
Storage Temperature F° (C°)	-4 to 113 (-20 to 45)	-4113 °F (-2045 °C)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)
Housing Material	Polyurethane	Polyurethane	Polycarbonate / PET Polyester Blend	Yellow Polypropylene	Yellow Polypropylene
Rated Operational Characteristics [1]	_	_	AC - B600	AC-15: A600 or Ue = 600V, le = 1.2A or Ue = 240V, le = 3A DC-13: Q600	AC-15: A600 or Ue = 600V, Ie = 1.2A or Ue = 240V, Ie = 3A DC-13: Q600
		—	DC - P600	or Ue = 600V. le = 0.1A or Ue = 250V, le = 0.27A	or Ue = 600V. le = 0.1A or Ue = 250V, le = 0.27A
Thermal Current	-		Continuous 5A	Continuous 10A	Continuous 10A
Connection Type	—	—	1/2 in. NPT screw clamp terminals	8–26 mm cable entry screw clamp terminals	8–26 mm cable entry screw clamp terminals
Cable Size	Receiver: PVC torsion cable, largest single wire Ø 0.21 mm/0.008 in., outer Ø 12.0 mm/0.47 in.	Receiver: PVC torsion cable, largest single wire Ø 0.21 mm (0.008 in.), outer Ø 12.0 mm (0.47 in.)	—	1 x 0.5 mm² (20AWG) min. 2 x 1.5 mm² (16AWG) max. 1 x 2.5 mm² (14AWG) max.	1 x 14 AWG (copper only)
Digest Location	ZAR, Harmony® eXLhoist, page 19-78	ZAR, Remote Control Device and Base Station, page 19-79	Type BW, page 19-81	XAC, page 19-82	XAC, page 19-82



Tower Lights and Beacons Selection Guide (1 of 2)

Family	XVB L	XVB C
Type of Product	Beacon	Tower Light
Diameter	70mm	70mm
Features	Product for Customer Configuration	Product for Customer Configuration
	UL File E164353 CCN NKCR	UL File E164353 CCN NKCR
Approvals	CSA File LR 44087 Class 3211 03	CSA File LR 44087 Class 3211 03
	CE Marked	CE Marked
Conforming to Standards	IEC/EN 60947-5-1	IEC/EN 60947-5-1
Comorning to Standards	UL 508	UL 508
	CSA 22.2 No 14	CSA 22.2 No 14
Degree of Protection	IP65	IP65
Operating Temperature F° (C°)	-13 to122 (-25 to 50)	-13 to 122 (-25 to 50)
Storage Temperature F° (C°)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)
Light Source	LED / Incandescent	LED / Incandescent
Electrical Consumption		I
	24 Vac/dc: < 30 mA	24 Vac/dc; < 30 mA
LED Steady	120–230 Vac: < 30 mA	120–230 Vac: < 30 mA
	24 Vac/dc: < 40 mA	24 Vac/dc: < 40 mA
LED Flashing with Buzzer	120–230 Vac: < 15mA	120–230 Vac: < 15mA
with buzzer	1 Hz (1 flash per second)	1 Hz (1 flash per second)
	24 Vdc: 5 Joules unit < 430 mA; 10 J unit: < 850 mA	24 Vdc: 5 Joules unit < 430 mA; 10 J unit: < 850 mA
	120 Vac:	120 Vac:
Strobe (Energized)	5 Joules unit: < 130 mA; 10 J unit: < 260 mA	5 Joules unit: < 130 mA; 10 J unit: < 260 mA
	230 Vac: 5 Joules unit: < 105 mA; 10 J unit: < 210 mA	230 Vac: 5 Joules unit: < 105 mA; 10 J unit: < 210 mA
	1 Hz (1 flash per second)	1 Hz (1 flash per second)
	12–48 Vac/dc: < 20 mA	12–48 Vac/dc: < 20 mA
Audible Sounders	120–230 Vac: < 50 mA	120–230 Vac: < 50 mA
	90 decibels at 1 meter	90 decibels at 1 meter
Connection Type	Screw Clamp	Screw Clamp
Cable Size	1 x 16 AWG (1.5 mm²) With Cable End	1 x 16 AWG (1.5 mm ²) With Cable End
Digest Location	XVB 70 mm Beacons, page 19-84	XVB 70 mm Components, page 19-85

Tower Lights and Beacons Refer to Catalogs DIA5ED2130805EN*, DIA5ED2130407EN**, and 9001CT1002***



Tower Lights and Beacons Selection Guide (2 of 2)

Family		<u> </u>		-	Selection Guide (2 o	
Family	XVC 4	XVC 6	XVC 1	XVU	XVR	XVS
Type of Prod		*Tower Light	*Tower Light	**Tower Light	***Rotating Beacon 84/100/106/120/130 mm	***Siren and Electronic Alarm
Diameter Features		60 mm	I	60mm Programmable LED module with multiple colors, flashing, blinking, and rotating	All devices are pre-assembled and pre-wired. XVR12++S includes buzzer: 50 to 90 decibels XVR3++S includes buzzer: 70 to 90 decibels	
Approvals	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN NKCR	UL file: E164353 CCN : NKCR	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN UCST
	CSA LR44087 Class 3211-03 CE Marked EN61000-6-2 EN61000-6-3	CSA LR44087 Class 3211-03 CE Marked EN61000-6-2 EN61000-6-3	CSA LR44087 Class 3211-03 CE Marked EN61000-6-2 EN61000-6-3	CSA File : 225619 CLASS : 3211-07 CE Marked EN 60947-1 EN 60947-5-1	CSA LR44087 Class 3211-03 CE Marked EN61000-6-2 EN61000-6-4	CSA LR44087 Class 3211-03 CE Marked Ce UKCA
Conforming to		EN61000-6-4	EN61000-6-4		_	EN61000-6-2, EN61000-6-3, EN60947-1, EN60947-5-1
Standards	UL 508	UL 508	UL 508	UL508	 UL 508	EN60947-1, EN60947-5-1 UL 508
	CSA 22.2 No. 14	CSA 22.2 No. 14	CSA 22.2 No. 14	CSA C22.2 No.14	CSA 22.2 No. 14	CSA 22.2 No. 14 (excluding XVSV)
Degree of Protection	IP54	IP54	IP54	IP65	XVR08 - XVR13: IP23 / IP55 / IP65 / IP66 / IP67 XVR3: IP23 / IP65 - NEMA 4/4X - Up to 7.1gn vibration resistance	IP53 / IP54 / IP65
Operating Temperature	())	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)	-13 to 122 (-25 to 50)	-14 to 122 (-10 to 50) / (-20 to 50)	-4 to 122 (-20 to 50) (-20 to 60 XVSV)
Storage Temperature	-40 to 158 (-40 to F° (C°) 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-13 to 150 (-25 to 65)	-31 to 158 (-35 to 70)	-31 to 158 (-35 to 70) (-10 to 55 XVSV)
Light Source		LED	LED	LED	LED	—
Electrical Cor	24 V: 1 unit = 40mA; 2 unit = 80mA; 3 unit = 120mA 4 unit = 160mA; 5 unit = 200mA		24 V: 1 unit = 100mA; 2 unit = 200mA; 3 unit = 300mA 4 unit = 400mA; 5 unit = 500mA	Body unit ≤ 400mA	XVR08, XVR10, XVR12, and XVR13 (without buzzer) 12 Vac/dc: 360mA 24 Vac/dc: 180mA XVR3 (with-w/o buzzer) Rotating, Flashing, Blinking (10 modes) 12-24V DC: 3000mA 48V DC: 1000mA 100-230V AC: 500mA	_
LED Flashing ** with Buzze	4 unit = 210 mA; 5 unit = 250 mA 0.7 to 3 Hz (1 flas	h per 0.7 to 3 sec)	24 V: 1 unit = 150mA; 2 unit = 250mA; 3 unit = 350mA 4 unit = 450mA; 5 unit = 550mA 3 to 3.5 Hz (1 flash per 3 to 3.5 sec)	Buzzer ≤ 70 mA Flasher and multi-color ≤ 70 mA	XVR12 with buzzer: 12 Vac/dc: 400 mA 24 Vac/dc: 230 mA 3 Hz (1 flash per 3 sec) XVR3 (with-w/o buzzer) Rotating, Flashing, Blinking (10 modes) 12-24V DC, 48V DC: 3000mA 48V DC: 1000mA 100-230V AC: 500mA	_
Strobe (Ener	gized)		_	—	—	—
	70 to 85 decibels at 1 meter	70 to 85 decibels at 1 meter	60 to 85 decibels at 1 meter	_	_	XVS14BMW 12 Vdc: 350mA 24 Vdc: 400 mA 105 decibels at 1 m XVS72BM
	nders					12 Vdc: 280 mA 24 Vdc: 190 mA
Audible Sour	Type Pre-Wired,	Pre-Wired,	— Pre-Wired,	_	_	90 decibels at 1 m XVSV7BBN 24 Vdc: 75mA - 89dB at 1m XVSV9MBN 100 Vac: 100mA - 97dB at 1 m XVS14BMW

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Tower Lights and Beacons

Selection Guide

Refer to Catalogs DIA5ED2130805EN*, DIA5ED2130407EN**, and 9001CT1002***

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Family	XVC 4	XVC 6	XVC 1	XVU	XVR	XVS
	Color-Coded Wires cable length:	Color-Coded Wires cable length:	Color-Coded Wires cable length: 500mm XVC1••K		cable length: 500mm XVR08••• 400mm XVR10•••	Pre-Wired, Color-Coded Wires cable length: 500mm XVS14
	600mm XVC4•• 900mm XVC4••K 500mm XVC4••5S	600mm XVC6•• 850mm XVC6••K 550mm XVC6••5S 850mm XVC6••5SK	500mm XVC1••SK 550mm XVC6••5S 850mm XVC6••5SK		400mm XVR12••• 400mm XVR13••• 400mm XVR3•••	XVS72BM•• Not Pre-Wired
Cable Size	22 AWG (0.33 mm²)	22 AWG (0.33 mm²)	22 AWG (0.33 mm ²)	22 - 16 AWG	16 AWG (1.25 mm ²) XVR13••• 18 AWG (0.75 mm ²) 20 AWG (0.57 mm2) XVR3•••	See each product data sheet
Digest Location	XVC, page 19-87	XVC, page 19-87	XVC, page 19-87	XVU, Tower Lights For Customer Assembly (up to 5 units), page 19-89	XVR, page 19-93	XVS, page 19-95
	For Tower Lights catalog numbers: • Of Irist dot denotes voltage selection • Oe second dot denotes color selection					

XB4–XB5 Common Operators, Complete with Contact Blocks



Refer to Catalogs DIA5ED2121212EN and DIA5ED2121213EN

XB4–XB5 Common Operators

Table 19.1: BLACK—Start Push Buttons (flush head) Contact Block Operator Style Legend Plate Description Туре XB4 Die Cast Chrome XB4BA21 ZBY2303 1 N.O. XB5 Double Insulated XB5AA21 ZBY2303 1 N.O.

Table 19.3: BLACK—Off-On Selector Switch

Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		1 N.O.	XB4BD21	ZBY2367
XB5 Double Insulated		1 N.O.	XB5AD21	ZBY2367

Table 19.5: RED—120 Vac LED—On Pilot Light

			0	
Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		120 Vac Red LED	XB4BVG4	ZBY2311
XB5 Double Insulated		120 Vac Red LED	XB5AVG4	ZBY2311

Table 19.7: RED-40 mm Mushroom Stop (Push-Pull)

Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		1 N.C.	XB4BT42	ZBY9320
XB5 Double Insulated		1 N.C.	XB5AT42	ZBY9320

When ordering, please specify: Quantity Type or Catalog Number

Table 19.2: RED—Stop Push Buttons (extended head)

Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		1 N.C.	XB4BL42	ZBY2304
XB5 Double Insulated		1 N.C.	XB5AL42	ZBY2304

Table 19.4: Hand-Off-Auto Selector Switch

Table 19.4. Hand-Oll-Addo Selector Switch						
Operator Style	Description	Contact Block	Туре	Legend Plate		
XB4 Die Cast Chrome		2 N.O.	XB4BD33	ZBY2387		
XB5 Double Insulated		2 N.O.	XB5AD33	ZBY2387		

Table 19.6: GREEN—120 Vac LED—Off Pilot Light

Operator Contact Turs Lorend Disto					
Style	Description	Contact Block	Туре	Legend Plate	
XB4 Die Cast Chrome		120 Vac Green LED	XB4BVG3	ZBY2312	
XB5 Double Insulated		120 Vac Green LED	XB5AVG3	ZBY2312	

Table 19.8: RED-40 mm Mushroom Emergency Stop (Trigger Action, Turn-to-Release)

Operator Style	Description	Contact Block	Туре	Legend Plate 60 mm Round
XB4 Die Cast Chrome		L 1 N.O. / 1 N.C.	XB4BS8445	ZBY9320
XB5 Double Insulated	gjm)	L. 1 N.O./ 1 N.C.	XB5AS8445	ZBY9320

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Type K, SK Common Operators, Complete with Contact Blocks

Class 9001 / Refer to Catalog 9001CT1103

Type K and SK Common Operators

Table 19.9: BLACK—Start Push Buttons

Operator Style	Description	Contact Block	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)			KR1BH13	KN201
30 mm Corrosion Resistant (Non-Metallic)	03		SKR1BH13	KN101SP

Table 19.11: BLACK—Off-On Selector Switch

Operator Style	Description	Description Contact Contact Sequence (Contact Block Included)		Legend Plate [1]
30 mm Industrial (Metal)	5	1	KS11BH13	KN244
30 mm Corrosion Resistant (Non-Metallic)		0 1	SKS11BH13	KN144SP

Table 19.13: RED-120 Vac-On Pilot Light

•						
Operator Style	Description	Type [1]	Legend Plate [1]			
30 mm Industrial (Metal)	O	KP1R31	KN203			
30 mm Corrosion Resistant (Non-Metallic)		SKP1R31	KN103SP			

Table 19.15: RED-120 Vac-On Push-To-Test Pilot Light

Operator Style	Description	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)	A CONT	KT1R31	KN203
30 mm Corrosion Resistant (Non-Metallic)		SKT1R31	KN103SP

When ordering, please specify:
Quantity
Class Number (if appropriate)
Type or Catalog Number

Table 19.10: RED—Stop Push Buttons

Operator Style	Description	Contact Block	Туре [1]	Legend Plate [1]
30 mm Industrial (Metal)	6		KR1RH13	KN202
30 mm Corrosion Resistant (Non- Metallic)	03		SKR1RH13	KN102RP

Table 19.12: BLACK—Hand-Off-Auto Selector Switch

Operator Style	Operator Description		Typ e [1]	Legend Plate [1]
30 mm Industrial (Metal)	3	× † 7	KS43BH13	KN260
30 mm Corrosion Resistant (Non- Metallic)		1 0 0 0 0 1	SKS43BH13	KN160SP

Table 19.14: GREEN-120 Vac-Off Pilot Light

Operator Style	Description	Туре [1]	Legend Plate [1]
30 mm Industrial (Metal)	M	KP1G31	KN204
30 mm Corrosion Resistant (Non- Metallic)		SKP1G31	KN104SP

Table 19.16: GREEN—120 Vac—Off Push-To-Test Pilot Light

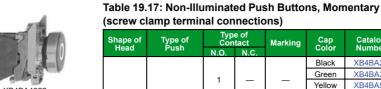
Operator Style	Description	Туре [1]	Legend Plate [1]
30 mm Industrial (Metal)	A CON	KT1G31	KN204
30 mm Corrosion Resistant (Non- Metallic)	M The	SKT1G31	KN104RP

XB4 Complete Devices Refer to Catalog DIA5ED2121212EN





XB4BC21



Shape of Type of Head Push		Type of Contact		Marking Cap Color	Catalog Number	Components		
пеац	Push	N.O.	N.C.		COIDI	Number		
					Black	XB4BA21	(ZB4BZ101 + ZB4BA2)	
		1			Green	XB4BA31	(ZB4BZ101 + ZB4BA3)	
		1	_	_	Yellow	XB4BA51	(ZB4BZ101 + ZB4BA5)	
					Blue	XB4BA61	(ZB4BZ101 + ZB4BA6)	
0	Flush		1		Red	XB4BA42	(ZB4BZ102 + ZB4BA4)	
S	Flush				Black	XB4BA25	(ZB4BZ105 + ZB4BA2)	
					Green	XB4BA35	(ZB4BZ105 + ZB4BA3)	
		1	1	_	Red	XB4BA45	(ZB4BZ105 + ZB4BA4)	
						Yellow	XB4BA55	(ZB4BZ105 + ZB4BA5)
					Blue	XB4BA65	(ZB4BZ105 + ZB4BA6)	
0	Flush	1	_	"I" (white)	Green	XB4BA3311	(ZB4BZ101 + ZB4BA331)	
\bigcirc	Flush	_	1	"O" (white)	Red	XB4BA4322	(ZB4BZ102 + ZB4BA432)	
	Flush with	Flush with			Black	XB4BP21	(ZB4BZ101 + ZB4BP2)	
	clear silicone				Green	XB4BP31	(ZB4BZ101 + ZB4BP3)	
(())	boot (color of	1	_	_	Yellow	XB4BP51	(ZB4BZ101 + ZB4BP5)	
	pusher				Blue	XB4BP61	(ZB4BZ101 + ZB4BP6)	
	unobscured)		1	_	Red	XB4BP42	(ZB4BZ102 + ZB4BP4)	
6		_	1	_	Red	XB4BL42	(ZB4BZ102 + ZB4BL4)	
\bigcirc	Extended	1	1	_	Red	XB4BL45	(ZB4BZ105 + ZB4BL4)	
\bigcirc	Mushroom head Ø 40 mm	1	_	_	Black	XB4BC21	(ZB4BZ101 + ZB4BC2)	

Table 19.18: Two Button Push Buttons, Momentary (screw clamp terminal connections)

XB4 Complete Devices—Non-Illuminated

(
Shape of Type of				Marking	Degree of	Catalog	Components		
Head	Push	N.O.	N.C.	manning	Protection	Number	Componenta		
90	One flush green push* One extended red push**	1	1	*"I" (white) **"O" (white)	IP66 IP69K	XB4BL73415	(ZB4BZ105 + ZB4BL7341)		

Table 19.19: Two Button Push Buttons, Momentary + one white central pilot light (screw clamp terminal connections)

Shape of Type of		of Type of Contact		Marking	Degree of	Pilot Light	Catalog Number
Head	Push	N.O.	N.C.	Marking	Protection	Voltage	
	One flush green push* One extended red push** One white central pilot light block	1	1	*"I" (white) **"O" (white)	IР66 IР69К	24 120 240	XB4BW73731B5 XB4BW73731G5 XB4BW73731M5

Table 19.20: Three Button Push Buttons, Momentary (screw clamp terminal connections)

Shape of Type of		f Type of Contact		Degree of		Catalog
Head	Push	N.O.	N.C.	Protec- tion	Marking and Cap Color	Number
	Two flush pushes			IP66	White "I" on green background White "II" on green background *White "Stop" on red background	XB4BA731327
	+ one central projecting red push*	2	1	IP69K	Black "→" on white background White "⇔" on black background *White "Stop" on red background	XB4BA711237

For Legend Holders, refer to XB4 Legend Holders, page 19-24.



XB4BL73731•5



XB4BA731327



XB4 Complete Devices Refer to Catalog DIA5ED2121212EN

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XB4BS9445

XB4BT845



XB4BS542





XB4BG33

XB4BD33



Table 19.21: Non-Illuminated Trigger Action Emergency Stop Push Buttons, Ø 40
mm, Red (screw clamp terminal connections)

22 mm Push Buttons

Shape		Type of	Contact	Catalog	
of Head	Type of Push	N.O.	N.C.	Number	Components
0	Trigger action push-pull [1]	1	1	XB4BT845	(ZB4BZ105 + ZB4BT84)
6	Trigger action turn-to-release[1]	1	1	XB4BS8445	(ZB4BZ105 + ZB4BS844)
)		1	2	XB4BS84441	(ZB4BZ141 + ZB4BS844)
Ì	Trigger action Key release [1] (No. 455)	1	1	XB4BS9445	(ZB4BZ105 + ZB4BS944)
0	Trigger action Push-pull[1]	-	1	XB4BT842	(ZB4BZ102 + ZB4BT84)
	Trigger action Turn-to-release[1]	_	1	XB4BS8442	(ZB4BZ102 + ZB4BS844)
0	Trigger action Key release [1] (No. 455)		1	XB4BS9442	(ZB4BZ102 + ZB4BS944)

Table 19.22: Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) [2]

Shape	Type of Operator	Type of Contact		Number and Type of		Catalog	0
of Head	N.O. N.C. Positions		Number	Components			
		1	-	2-maintained	<	XB4BD21	(ZB4BZ101 + ZB4BD2)
	Standard lever.	1	1	2-maintained	<	XB4BD25	(ZB4BZ105 + ZB4BD2)
C.	black			3-maintained	\checkmark	XB4BD33	(ZB4BZ103 + ZB4BD3)
		2	_	3-momentary to center	$\langle \!$	XB4BD53	(ZB4BZ103 + ZB4BD5)
		1	-	2-maintained	<	XB4BJ21	(ZB4BZ101 + ZB4BJ2)
	Extended lever, black	2	-	3-maintained	\checkmark	XB4BJ33	(ZB4BZ103 + ZB4BJ3)
		2		3-momentary to center	\Diamond	XB4BJ53	(ZB4BZ103 + ZB4BJ5)
			_	o · · · ·	\leq	XB4BG21	(ZB4BZ101 + ZB4BG2)
		1		2-maintained	\sim	XB4BG41	(ZB4BZ101 + ZB4BG4)
Q	Key (No. 455)			2-momentary to left	\diamond	XB4BG61	(ZB4BZ101 + ZB4BG6)
		2	_		¢	XB4BG03	(ZB4BZ103 + ZB4BG0)
				3-maintained	\$	XB4BG33	(ZB4BZ103 + ZB4BG3)

NOTE: The symbol $<math>
 \mathbb{R}$ indicates key withdrawal position(s).

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

[1] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850).

For contact configurations, see Table 19.36 Sequence of Contacts on Selector Switch Bodies, page 19-16. [2]

XB4 Complete Devices Refer to Catalog DIA5ED2121212EN



XB4 Complete Devices—Illuminated

Table 19.23: Pilot Lights with Protected LED™

(screw clamp terminal connections) [3]

Shape of Head		Supply Voltage	Color	Catalog Number	Components	
			White	XB4BVB1	(ZB4BVB1 + ZB4BV013)	
			Green	XB4BVB3	(ZB4BVB3 + ZB4BV033)	
		24 Vac/Vdc	Red	XB4BVB4	(ZB4BVB4 + ZB4BV043)	
	Protected			Yellow	XB4BVB5	(ZB4BVB5 + ZB4BV053)
\bigcirc	Protecto		Blue	XB4BVB6	(ZB4BVB6 + ZB4BV063)	
\bigcirc	IEU		White	XB4BVG1	(ZB4BVG1 + ZB4BV013)	
				Green	XB4BVG3	(ZB4BVG3 + ZB4BV033)
		110–120 Vac	Red	XB4BVG4	(ZB4BVG4 + ZB4BV043)	
			Yellow	XB4BVG5	(ZB4BVG5 + ZB4BV053)	
			Blue	XB4BVG6	(ZB4BVG6 + ZB4BV063)	

Table 19.24: Pilot Lights for BA9s Bulb (screw clamp terminal connections)

Shape of Head Supply Voltage		Color	Catalog	Components
Direct supply, for BA9s (inca	/ < 250 V, 2.4 W bulk	Number b (bulb not incl	uded)	
		White	XB4BV61	(ZB4BV6 + ZB4BV01)
	< 250 Vac/Vdc	Green	XB4BV63	(ZB4BV6 + ZB4BV03)
\bigcirc		Red	XB4BV64	(ZB4BV6 + ZB4BV04)
		Yellow	XB4BV65	(ZB4BV6 + ZB4BV05)
Transformer type with 1.2 VA	, 6 V secondary. BA9s	incandescent bulb i	included	
111 - 117 ·		White	XB4BV31	(ZB4BV3 + ZB4BV01)
	110–120 Vac	Green	XB4BV33	(ZB4BV3 + ZB4BV03)
	50/60 Hz	Red	XB4BV34	(ZB4BV3 + ZB4BV04)
		Yellow	XB4BV35	(ZB4BV3 + ZB4BV05)

Table 19.25: Illuminated Push Buttons, Momentary (screw clamp terminal connections) [3]

Connect	- / /	Тур	of _				
Shape of Head	Description	Con	tact	Supply Voltage	Color of Push	Catalog Number	Components
		N.O.	N.O. N.C. Voltage of Fush Number				
Flush	 	1	1	1	Alle the	VD 4DIMO4D5	(ZB4BW0B15 + ZB4BW313)
					White	XB4BW31B5	(ZB4BW0B15 + ZB4BW313) (ZB4BW0B35 + ZB4BW333)
				0414 A41	Green	XB4BW33B5	(ZB4BW0B35 + ZB4BW333) (ZB4BW0B45 + ZB4BW343)
				24 Vac/Vdc	Red	XB4BW34B5	(ZB4BW0B45 + ZB4BW343) (ZB4BW0B55 + ZB4BW353)
	Protected				Yellow	XB4BW35B5	(,
(\bigcirc)	I'EN	1	1		Blue	XB4BW36B5	(ZB4BW0B65 + ZB4BW363)
					White	XB4BW31G5	(ZB4BW0G15 + ZB4BW313)
	-			110-120	Green	XB4BW33G5	(ZB4BW0G35 + ZB4BW333)
				Vac	Red	XB4BW34G5	(ZB4BW0G45 + ZB4BW343)
					Yellow	XB4BW35G5	(ZB4BW0G55 + ZB4BW353)
		-			Blue	XB4BW36G5	(ZB4BW0G65 + ZB4BW363)
	Direct supply for BA9s			< 250 Vac/ Vdc	White	XB4BW3165	(ZB4BW065 + ZB4BW31)
(\bigcirc)	2.4 W max.	. 1	1		Green	XB4BW3365	(ZB4BW065 + ZB4BW33)
	bulb not				Red	XB4BW3465	(ZB4BW065 + ZB4BW34)
	included	-			Yellow	XB4BW3565	(ZB4BW065 + ZB4BW35)
			1 1	110–120 Vac 50/60 Hz	White	XB4BW3135	(ZB4BW035 + ZB4BW31)
	Transformer type				Green	XB4BW3335	(ZB4BW035 + ZB4BW33)
	1.2 VA, 6 V				Red	XB4BW3435	(ZB4BW035 + ZB4BW34)
(\bigcirc)	secondary. BA9s	1		230–240 Vac 50/60 Hz	Yellow	XB4BW3535	(ZB4BW035 + ZB4BW35)
	incandescent				White	XB4BW3145	(ZB4BW045 + ZB4BW31)
	bulb				Green	XB4BW3345	(ZB4BW045 + ZB4BW33)
	included				Red	XB4BW3445	(ZB4BW045 + ZB4BW34)
		I		l	Yellow	XB4BW3545	(ZB4BW045 + ZB4BW35)
Extended		1			\\/hite	XB4BW11B5	(ZB4BW0B15 + ZB4BW113)
					White		(ZB4BW0B15 + ZB4BW113) (ZB4BW0B35 + ZB4BW133)
				041/0/	Green	XB4BW13B5	(ZB4BW0B35 + ZB4BW133) (ZB4BW0B45 + ZB4BW143)
				24 Vac/Vdc	Red	XB4BW14B5	(ZB4BW0B45 + ZB4BW143) (ZB4BW0B55 + ZB4BW153)
	Protected				Yellow	XB4BW15B5	(,
(\bigcirc)		1	1		Blue	XB4BW16B5	(ZB4BW0B65 + ZB4BW163) (ZB4BW0G15 + ZB4BW113)
					White	XB4BW11G5	(
				110-120	Green	XB4BW13G5	(ZB4BW0G35 + ZB4BW133)
				Vac	Red	XB4BW14G5	(ZB4BW0G45 + ZB4BW143)
					Yellow	XB4BW15G5	(ZB4BW0G55 + ZB4BW153)
				l	Blue	XB4BW16G5	(ZB4BW0G65 + ZB4BW163)

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

7	_
	-11
6.5	1 60

XB4BV64



XB4BV33

XB4BW33B5

XB4BW3465





XB4BW3545

XB4BVB5



ZB4BA4

ZB4BP18

ZB4BA36

ZB4BA334

ZB4BL432



ZB4BA0

ZB4BA38

ZB4BL1

XB4 Operators

Table 19.26: Non-Illuminated Operators, Momentary–Unmarked

Shape of Head	Type of Push	Cap Color	Catalog Number
onape of nead	Type of Fush	02000	oatalog Nulliber
	Flush, without color cap [4]	_	ZB4BA0
0	Flush, with set of 6 color caps	White Black Green Red Yellow Blue	ZB4BA9
0	Flush	White Black Green Red Yellow Blue Gray	ZB4BA1 ZB4BA2 ZB4BA3 ZB4BA4 ZB4BA5 ZB4BA6 ZB4BA8
0	Flush with transparent cap, for insertion of legend	White Green Red Yellow Blue	ZB4BA18 ZB4BA38 ZB4BA48 ZB4BA58 ZB4BA68
O	Booted Flush (clear silicone) Cap color unobscured	White Black Green Red Yellow Blue	ZB4BPA1 ZB4BPA2 ZB4BPA3 ZB4BPA4 ZB4BPA5 ZB4BPA6
	Booted Extended (clear silicone) Cap color unobscured	White Black Green Red Yellow Blue	ZB4BP1 ZB4BP2 ZB4BP3 ZB4BP4 ZB4BP5 ZB4BP5 ZB4BP6
	Booted (colored silicone) Cap color unobscured	White Black Green Red Yellow Blue	ZB4BP1S ZB4BP2S ZB4BP3S ZB4BP4S ZB4BP5S ZB4BP6S
\bigcirc	Booted for insertion of legend (clear silicone) Cap color unobscured	White Green Red Yellow Blue	ZB4BP18 ZB4BP38 ZB4BP48 ZB4BP58 ZB4BP68
0	Extended	White Black Green Red Yellow Blue	ZB4BL1 ZB4BL2 ZB4BL3 ZB4BL4 ZB4BL5 ZB4BL6
0	Guarded Head	White Black Green Red Yellow Blue	ZB4BA16 ZB4BA26 ZB4BA36 ZB4BA46 ZB4BA56 ZB4BA66

Table 19.27: Non-Illuminated Operators, Momentary—Premarked

Shape of Head	Type of Push	Marking Text	Marking Color	Cap Color	Catalog Number
			White	Green	ZB4BA331
		1	Black	White	ZB4BA131
		START	White	Green	ZB4BA333
		START	Black	White	ZB4BA133
		ON	White	Green	ZB4BA341
		UN	Black	White	ZB4BA141
-		RESET	White	Black	ZB4BA222
	Flush	JOG	White	Black	ZB4BA245
	Flush	0	White	Red	ZB4BA432
-				Black	ZB4BA232
		STOP	White	Red	ZB4BA434
				Black	ZB4BA234
		OFF	White	Red	ZB4BA435
		011	WINE	Black	ZB4BA235
		† [5]	Black	White	ZB4BA334
		• [9]	White	Black	ZB4BA335
		0	White	Red	ZB4BL432
		0	WINE	Black	ZB4BL232
	Extended	STOP	White	Red	ZB4BL434
	LAIended	510P	white	Black	ZB4BL234
		OFF	White	Red	ZB4BL435
		UFF	white	Black	ZB4BL235

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

ZB4BA331

Color cap to be ordered separately. . Cap supplied not clipped-in, allowing orientation of arrow in any one of 4 directions: [4] [5]

22 mm Push Buttons



XB4 Operators Refer to Catalog DIA5ED2121212EN



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Shape of Head	Type of Push	Color of Push	Catalog Number
		White	ZB4BH01
-		Black	ZB4BH02
	Flush	Green	ZB4BH03
	Flush	Red	ZB4BH04
)		Yellow	ZB4BH05
		Blue	ZB4BH06
		White	ZB4BH1
-		Black	ZB4BH2
	Extended	Green	ZB4BH3
	Extended	Red	ZB4BH4
		Yellow	ZB4BH5
		Blue	ZB4BH6

Table 19.29: Three Head Operators, Momentary

Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number		
Premarked							
		"I" (white) "II" (white)	Green Green		ZB4BA73132		
		"←" (white) "→" (white)	Green Green		ZB4BA73133		
$\left[\bigcirc\right]$		"t" (white) "ŧ" (white)	Green Green		ZB4BA73134		
$\overline{\bigcirc}$		"+" (white) "-" (white)	Green Green	IP66	ZB4BA73135		
Two flush	Two flush	I wo flush	Two flush	"+" (black) "-" (black)	White White	IP69K	ZB4BA71115
+ one central projecting red push marked "Stop"		"←" (black) "→" (white)	White Black		ZB4BA71123		
·		"t" (black) "t" (white)	White Black		ZB4BA71124		
		"t" (white) "I" (white)	Black Black		ZB4BA72124		
Without caps							
	Two flush without caps	-	_	IP66 IP69K	ZB4BA791		

Table 19.30: Two Head Operators, Momentary

Table 19.30: Two Head Operators, Momentary								
Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number			
No Marking								
		-	Green Red		ZB4BA7340			
	Two flush	_	White Black	IP66	ZB4BA7120			
	One flush One extended	_	Green Red	IP69K	ZB4BL7340			
Premarked								
\square		"I" (white) "O" (white)	Green Red		ZB4BA7341			
0	Two flush	"I" (black) "O" (white)	White Black	IP66	ZB4BA7121			
50	One flush One extended	"I" (white) "O" (white)	Green Red	IP69K	ZB4BL7341			
Without caps					• •			
	Two flush without caps	_	_	IP66 IP69K	ZB4BA79			

For Legend Holders, refer to XB4 Legend Holders, page 19-24.





ZB4BL7341

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Refer to Catalog DIA5ED2121212EN



ZBY9320

XB4 Operators and Emergency Stop Operators

Table 19.31: Mushroom Heads, Momentary

Shape of Head	Diameter of Head	Color of Head	Catalog Number
		Black	ZB4BC24
		Green	ZB4BC34
	30 mm	Red	ZB4BC44
		Yellow	ZB4BC54
		Blue	ZB4BC64
		Black	ZB4BC2
	40 mm	Green	ZB4BC3
()		Red	ZB4BC4
		Yellow	ZB4BC5
		Blue	ZB4BC6
		Black	ZB4BR2
		Green	ZB4BR3
	60 mm	Red	ZB4BR4
		Yellow	ZB4BR5
		Blue	ZB4BR6

Table 19.32: Mushroom Heads for Maintained Push Buttons

Shape of Head	Type of Push	Diameter of Head	Catalog Number	
For use in Emergency	Stop applications			
\cap		40 mm	Red	ZB4BT84
\bigcirc	Trigger action Push-pull <i>[6]</i>	60 mm	Red	ZB4BX84
(30 mm	Red	ZB4BS834
(\bigcirc)	Trigger action	40 mm	Red	ZB4BS844
$\langle \bigcirc \rangle$	Turn-to-release [6]	40 11111	Red marked "EMO"	ZB4BS84430
\bigcirc		60 mm	Red	ZB4BS864
\frown	-	30 mm	Red	ZB4BS934
(Φ)	Trigger action Key release	40 mm	Red	ZB4BS944 [7]
	(No. 455) [6]	60 mm	Red	ZB4BS964
For use in non-Emerge	ncy Stop applications			
\bigcirc		40 mm	Black	ZB4BT2
(\circ)	Push-pull	60 mm	Black	ZB4BX2
		30 mm	Black	ZB4BS42
\frown			Black	ZB4BS52
(\bigcirc)	Turn-to-release	40 mm	Yellow	ZB4BS55
	Tum-to-release	40 1111	Yellow marked "Robot Stop"	ZB4BS5550
		60 mm	Black	ZB4BS62
\cap		30 mm	Black	ZB4BS72
(Φ)	Key release	40 mm	Black	ZB4BS12
Jest Contraction of the second	(Ňo. 455)	60 mm	Black	ZB4BS22

Table 19.33: Circular Legends for Emergency Stop Mushroom Heads (yellow background)

Diameter	Text	Catalog Number
00	Blank	ZBY8101
90 mm	EMERGENCY STOP	ZBY8330
	Blank	ZBY9121
60 mm Bazalad	Emergency Stop	ZBY9320
60 mm Bezeled	Prada de Emergencia	ZBY9420
	Not Halt	ZBY9220

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

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[6] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850).

[7] Other key numbers:

-key no. 421E: add the suffix 12 to the catalog number.

key no. 458A: add the suffix 10 to the catalog number.
key no. 520E: add the suffix 14 to the catalog number.

-key no. 3131A: add the suffix 20 to the catalog number.

Example: The catalog number for a Ø 40 mm red mushroom head for a trigger action, maintained push button, with release by key no. 421E becomes: ZB5AS94412.







ZB4BJ3 Extended Lever

ZB4BG8

Table 19.34: No	n-Illuminated Selecto	or Switches	8]	
Color	Number and Type (of Positions	Standard Lever [9] Catalog I	Extended Lever
Black	2-maintained	\sim	ZB4BD2	ZB4BJ2
Black	2-momentary from right to left	\bigcirc	ZB4BD4	ZB4BJ4
Black	3-maintained	\rightarrow	ZB4BD3	ZB4BJ3
Black	3-momentary to center	\Diamond	ZB4BD5	ZB4BJ5
Black	3-momentary from left to center	\checkmark	ZB4BD7	ZB4BJ7
Black	3-momentary from right to center	\Rightarrow	ZB4BD8	ZB4BJ8

Table 19.35: Non-Illuminated Key Switches [8]

XB4 Selector Switches

Type of Operator	Number and T	ype of Positions	Catalog Number
		\sim	ZB4BG2
	2-maintained	\checkmark	ZB4BG02
R		La construction of the second	ZB4BG4
Me -	2-momentary from right to left	$\langle \rangle$	ZB4BG6
		A B A	ZB4BG0
Key (No. 455) NOTE: The symbol $ $			ZB4BG3
withdrawal position(s). Other key numbers: —key no. 421E: add the suffix 12 to the			ZB4BG03
catalog number. —key no. 458A: add the suffix 10 to the catalog number.	3-maintained		ZB4BG04
 key no. 520E: add the suffix 14 to the catalog number. key no. 3131A: add the suffix 20 to the 		\rightarrow	ZB4BG5
catalog number. —key no. 8D1: add the suffix D to the catalog number.		\rightarrow	ZB4BG9
Example: The catalog number for a head		\checkmark	ZB4BG09
with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position,	3-momentary from	\Rightarrow	ZB4BG1
becomes: ZB5AG212	left to center		ZB4BG01
	3-momentary to center		ZB4BG7
			ZB4BG8
	3-momentary from right to center	S R	ZB4BG05
			ZB4BG08

Table 19.36: Sequence of Contacts on Selector Switch Bodies

Unit Type		Selector Switches														
onit type		2-position 3-position														
Note: L=Left, C=Center, I O=Open, X=Cl	R=Right, osed	31	5		Q	45° 315°						5°				
Operator Plunger	Up															
Position	Down															
Contact Block Locatio	n	L	С	R	L	С	R	Ц	С	R	L	С	R	L	С	R
Contacts	N.O.	0	0	0	Х	Х	Х	Х	Х	0	0	0	0	0	Х	Х
Contacts	N.C.	Х	Х	Х	0	0	0	0	0	Х	Х	Х	Х	Х	0	0

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

For Selector Switch Sequence, refer to Table 19.49 Sequence of Contacts on Illuminated Selector Switch Bodies, page 19-20.

<u>|</u> 0

[8] For contact configurations, see Table 19.36 Sequence of Contacts on Selector Switch Bodies, page 19-16.

[9] For colored lever, add the following code to the end of part number: 01-white, 03-green, 04-red, 05-yellow, 06-blue (Example: ZB4BD204).





ZB4BD922







XB4BA8•1

XB4 Specialty Operators

Table 19.37: Potentiometer Operator (with Mounting Collar)

Shape of Head	Description	Application	Catalog Number
	For potentiometer with	For shaft Ø 1/4 in. (6.35 mm)	ZB4BD922
	shaft length 1.73 to 1.97 in. (45 to 50 mm) (potentiometer not included)	For shaft Ø 0.24 in. (6 mm)	ZB4BD912

Table 19.38: Complete Potentiometers

Description	Resistance (k Ω)	Weight (kg/lb)	Catalog Number
+/- 10% linear mode precision	1	0.095/0.209	XB4BD912R1K
complete potentiometer with	4.7	0.095/0.209	XB4BD912R4K7
screw terminals	10	0.095/0.209	XB4BD912R10K
	47	0.095/0.209	XB4BD912R47K
	100	0.095/0.209	XB4BD912R100K
	470	0.095/0.209	XB4BD912R470K

Table 19.39: Two Position Toggle Switch

Shape of Head	Color	Type of Positions	Catalog Number
	Black	Maintained	ZB4BD28
(6)	Black	Momentary	ZB4BD48

Table 19.40: Reset Operators, Flush, Adjustable Shaft

Shape of Head	Tra	ivel	Actuation Distance		Color	Catalog Number	
Shape of flead	in.	mm	in.	mm	COIOI	Catalog Number	
					Black	XB4BA821	
			0.24- 0.63	6–16	Red	XB4BA841	
	0.39	10	0.03		Blue	XB4BA861	
	0.39	10	0.00		Black	XB4BA822	
<u> </u>			0.63– 1.02		Red	XB4BA842	
					Blue	XB4BA862	
	0.55		1.18-		Black	XB4BA921	
					1.18– 5.12	30-130	Red
			5.12	J.1Z	Blue	XB4BA961	
	0.55	14	5.40		Black	XB4BA922	
<u> </u>			5.12- 10.12	130-257	Red	XB4BA942	
			10.12		Blue	XB4BA962	

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

ZB4BV063



XB4 Pilot Lights

Table 19.41: Pilot Light Heads

Shape of Head	For Use with Body Comprising Light Module Type	Color of Lens	Catalog Number
	Protected LED™ only	White Green Red Yellow Blue	ZB4BV013 ZB4BV033 ZB4BV043 ZB4BV053 ZB4BV063
\bigcirc	Protected LED only Fresnel (jeweled) lens [10]	White Green Red Amber Blue	ZB4BV013S ZB4BV033S ZB4BV043S ZB4BV053S ZB4BV063S
	For BA9s incandescent bulb, neon or LED only [11]	White Green Red Yellow Blue Clear	ZB4BV01 ZB4BV03 ZB4BV04 ZB4BV05 ZB4BV06 ZB4BV06
	For BA9s incandescent bulb, neon or LED Fresnel (jeweled) lens [12]	White Green Red Amber Blue Clear	ZB4BV01S ZB4BV03S ZB4BV04S ZB4BV05S ZB4BV06S ZB4BV06S ZB4BV07S

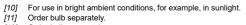
Table 19.42: Complete Bodies (Mounting Collar + Light Module for BA9s Incandescent Bulb, Neon or LED)

Description	Light Source	Supply Voltage (V)	Catalog Number				
Screw clamp terminal connections							
Direct supply	BA9s bulb 2.4 W max. Not included [12] <250		ZB4BV6				
Direct supply	BA9s incandescent bulb included	24 v 2 Watt ZB4BV624					
Direct supply	BA9s incandescent bulb included						
		110–120 Vac 50/60 Hz	ZB4BV3				
T		230–240 Vac 50/60 Hz	ZB4BV4				
Transformer type 1.2 VA, 6 V secondary	BA9s incandescent bulb included	400–50 Hz	ZB4BV5				
1.2 VA, 0 V Secondary		440–480 Vac 60 Hz	ZB4BV8				
		550–600 Vac 60 Hz	ZB4BV9				

Table 19.43: Complete Bodies (Mounting Collar + Light Module with Protected LED™) [13]

Light Source	Supply Voltage	Color of Light Source	Catalog Number				
Screw clamp terminal connections [14]							
	12 Vac/Vdc	White Green Red Yellow Blue	ZB4BVJ1 ZB4BVJ3 ZB4BVJ4 ZB4BVJ5 ZB4BVJ6				
Protected	24 Vac/Vdc	White Green Red Yellow Blue	ZB4BVB1 ZB4BVB3 ZB4BVB4 ZB4BVB5 ZB4BVB6				
LED	24–120 Vac/Vdc	White Green Red Yellow Blue	ZB4BVBG1 ZB4BVBG3 ZB4BVBG4 ZB4BVBG5 ZB4BVBG6				
	110–120 Vac	White Green Red Yellow Blue	ZB4BVG1 ZB4BVG3 ZB4BVG4 ZB4BVG5 ZB4BVG6				
Flashing Protected	24 Vac/Vdc	White Green Red Yellow Blue	ZB4BV18B1 ZB4BV18B3 ZB4BV18B4 ZB4BV18B5 ZB4BV18B5				
LED	110–120 Vac	White Green Red Yellow Blue	ZB4BV18G1 ZB4BV18G3 ZB4BV18G4 ZB4BV18G5 ZB4BV18G5 ZB4BV18G6				

For Legend Holders, refer to XB4 Legend Holders, page 19-24.



- Order bulb separately. Order bulb separately.
- [12]
- [13] For 240 V LED, replace the last "B" or "G" in the catalog number with an "M". For example, ZB4BVB1 (24 V) becomes ZB4BVM1 (240 V).
- [14] For Quick-Connect version, add "3" to the end of the catalog number Example: ZB4BVJ13 (Quick-Connect size 1 x 1/40" or 2 x 0.110").

ZB4BV•



20





ZB4BV043S

ZB4BV6



ZB4BV••

1

ZB4BV04



ZB4BW333

ZB4BW113

ZB4BW14

ZB4BW563

ZB4BW33

XB4 Illuminated Operators

Table 19.44: Heads for Momentary Illuminated Push Buttons

Shape of Head	Type of Push	Color	Catalog Numbe
Only use with Protected	LED™ light modules		
•		White	ZB4BW313
		Green	ZB4BW333
	Flush	Red	ZB4BW343
		Yellow	ZB4BW353
		Blue	ZB4BW363
		White	ZB4BW513
		Green	ZB4BW533
	Flush with clear silicone boot	Red	ZB4BW543
		Yellow	ZB4BW553
		Blue	ZB4BW563
		White	ZB4BA18
		Green	ZB4BA38
	Flush for insertion of legend	Red	ZB4BA48
		Yellow	ZB4BA58
		Blue	ZB4BA68
		White	ZB4BW113
		Green	ZB4BW133
	Extended	Red	ZB4BW143
		Yellow	ZB4BW153
		Blue	ZB4BW163
		Clear	ZB4BW413
		Green	ZB4BW433
0	Mushroom (40 mm)	Red	ZB4BW443
		Yellow	ZB4BW453
		Blue	ZB4BW463
Only use with light modu	les for a BA9s incandescent bulb, neo	n or LED	
		White	ZB4BW31
		Green	ZB4BW33
	Eluch	Red	ZB4BW34
	Flush	Yellow	ZB4BW35
		Blue	ZB4BW36
		Clear	ZB4BW37
		White	ZB4BW11
-		Green	ZB4BW13
	Extended	Red	ZB4BW14
	Extended	Yellow	ZB4BW15
		Blue	ZB4BW16
		Clear	ZB4BW17

Table 19.45: Heads for Maintained Illuminated Push Buttons

Shape of Head	Type of Push	Color of Lens	Catalog Number			
Only use with Protected LED light modules						
-		Clear	ZB4BW613			
	Push/Pull Mushroom (40 mm)	Green	ZB4BW633			
(0)		Red	ZB4BW643			
		Yellow	ZB4BW653			
		Blue	ZB4BW663			

Table 19.46: Illuminated Push-On/Push-Off Operators

Shape of Head	Type of Push	Color of Lens	Catalog Number				
Only use with Protected LED light modules							
		White	ZB4BH013				
		Green	ZB4BH033				
	Flush	Red	ZB4BH043				
		Yellow	ZB4BH053				
		Blue	ZB4BH063				
		White	ZB4BH13				
		Green	ZB4BH33				
	Extended	Red	ZB4BH43				
		Yellow	ZB4BH53				
		Blue	ZB4BH63				

For Legend Holders, refer to XB4 Legend Holders, page 19-24.



ZB4BH033



22 mm Push Buttons

ZB4BW7A3741



ZB4BW7A1721

XB4 Illuminated Operators

Refer to Catalog DIA5ED2121212EN



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Table 19.47: Two Button with Clear Pilot Light, Momentary						
Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number	
No Marking						
Protected		_	Green Red		ZB4BW7A3740	
	Two flush	_	White Black	IP66	ZB4BW7A1720	
Protected O	One flush One extended	_	Green Red	IP69K	ZB4BW7L3740	
Premarked						
Protected		"I" (white) "O" (white)	Green Red		ZB4BW7A3741	
LED O	Two flush	"I" (black) "O" (white)	White Black		ZB4BW7A1721	
Protected D	One flush One extended	"I" (white) "O" (white)	Green Red	IP66	ZB4BW7L3741	
Protected D	Two flush	"t" (black) "t" (white)	White Black	IP69K	ZB4BW7A1724	
Protected'	Two flush	"+" (black) "-" (white)	White Black		ZB4BW7A1715	
Without caps						
	Two flush without caps	_	_	IP66 IP69K	ZB4BW7A9	

Table 19.48: Illuminated Selector Switches, Standard Lever

Shape of Head	Number and Type of Positi	Catalog Number [15]						
Only use with Protect	Only use with Protected LED light modules							
	2-maintained	\sim	ZB4BK12•3					
	2-momentary from right to left	\sim	ZB4BK14•3					
	3-maintained	\checkmark	ZB4BK13•3					
	3-momentary to center	\Diamond	ZB4BK15•3					
	3-momentary from right to center	\checkmark	ZB4BK18•3					
	3-momentary from left to center	\checkmark	ZB4BK17•3					

Table 19.49: Sequence of Contacts on Illuminated Selector Switch Bodies

Unit Type					ş	Selector	Switche	s			
Onit Type			2-po:	sition				3-position			
		315		45°		315°					45°
Operator Plunger	Up										
Position	Down										
Contact Block Location		L	R	L	R	L	R	L	R	L	R
Contacts	N.O.	0	0	Х	Х	Х	0	0	0	0	Х
Contacts	N.C.	Х	Х	0	0	0	Х	Х	Х	Х	0
Note: L=Left, R=Ri	aht O=Ope	en X=Clo	osed								

	2 Posi	tion Selector Switch				Position Selector Switch	
		Contact block guide				Contact block guide	
0	Х	1 N.O. (left or right)	0	0	Х	1 N.O. (left)	
Х	0	1 N.C. (left or right)	Х	0	Х	2 N.O. wired in parallel (side by side)	
0	Х	1 N.O.	Х	0	0	1 N.O. (right)	
		and	0	Х	Х	1 N.C. (right)	
Х	0	1 N.C.	Х	Х	0	1 N.C. (left)	
			0	Х	0	2 N.C. wired in series (side by side)	

For Legend Holders, refer to XB4 Legend Holders, page 19-24.

	_		-	0	_
114		ł		0	
100		1		V	
	ZI	34	ΒK	13	43



Catalog Number

XB4 Electrical Components Refer to Catalog DIA5ED2121212EN



ZB4BZ101



ZB4BW0••3



ZB4BW06•



ZB4BW0•5

Table 19.	50: Contact B	ocks (Mounting Collar	with Contact Blocks)	
Do	scription	Type of	Contact	6
De	scription	N.O.	N.C.	
		1	_	

Screw clamp terminal connections	1		ZB4BZ101	
	_	1	ZB4BZ102	
	2		ZB4BZ103	
	_	2	ZB4BZ104	
	1	1	ZB4BZ105	
	1	2	ZB4BZ141	
For Quick-Connect version add "3" to the end of the catalog number Example: ZB4BZ1013 (Quick-Connect size 1 x 0.250" or 2 x 0.110")				

0.250° or 2x 0.110°). For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZB4BZ1029). Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001. Electrical components with connection by plug-in connector are available. Refer to Catalog 9001CT0001.

Table 19.51: Complete Bodies

XB4 Electrical Components

(Mounting Collar + Single Contact Block + Light Module with Protected LED™)

		-							
		Contact		Supply V	oltage [17]				
Light Source			Color	24 Vac/Vdc	110–120 Vac				
	N.O.	N.C.		Catalog	Number				
Screw clamp ter	minal con	nections							
			White	ZB4BW0B11	ZB4BW0G11				
			Green	ZB4BW0B31	ZB4BW0G31				
	1	_	Red	ZB4BW0B41	ZB4BW0G41				
			Yellow	ZB4BW0B51	ZB4BW0G51				
			Blue	ZB4BW0B61	ZB4BW0G61				
			White	ZB4BW0B12	ZB4BW0G12				
		- 1	Green	ZB4BW0B32	ZB4BW0G32				
	_		Red	ZB4BW0B42	ZB4BW0G42				
Protected							Yellow	ZB4BW0B52	ZB4BW0G52
Protect			Blue	ZB4BW0B62	ZB4BW0G62				
IFU			White	ZB4BW0B13	ZB4BW0G13				
		2 –	Green	ZB4BW0B33	ZB4BW0G33				
0.7	2		Red	ZB4BW0B43	ZB4BW0G43				
			Yellow	ZB4BW0B53	ZB4BW0G53				
			Blue	ZB4BW0B63	ZB4BW0G63				
			White	ZB4BW0B15	ZB4BW0G15				
			Green	ZB4BW0B35	ZB4BW0G35				
	1	1	Red	ZB4BW0B45	ZB4BW0G45				
			Yellow	ZB4BW0B55	ZB4BW0G55				
			Blue	ZB4BW0B65	ZB4BW0G65				

Table 19.52: Mounting Collar, Contact Block and Light Module (with screw clamp terminal connections)

Supply	Light Source	Supply Voltage	Type of Contact [18]		Color of Light Source	Catalog Number	
		voltage	N.O.	N.C.	Source		
Screw clamp term	inal connections						
			1	_	_	ZB4BW061	
Direct supply BA9s 2.4 W max. bulb			_	1	_	ZB4BW062	
	Not included [19]		2	-	_	ZB4BW063	
			1	1	_	ZB4BW065	
	BA9s incandescent bulb included	110-120 Vac	1	-	_	ZB4BW031	
T			50/60 Hz	1	1	_	ZB4BW035
Transformer type 1.2 VA, 6 V secondary		230–240 Vac 50/60 Hz	1		_	ZB4BW041	
			1	1	_	ZB4BW045	
		440–480 Vac 60 Hz	1	_	_	ZB4BW081	

[16]

[17]

Can be fitted with additional contact blocks, see Table 19.54 Add-On Contact Block (with screw clamp terminal connections), page 19-22. For 240V LED, replace the "B" or "G" with "M". (Example: change "ZB4BW0B11 (24V) to ZB4BW0M11 (24VV)) Can be fitted with additional contact blocks, see Table 19.54 Add-On Contact Block (with screw clamp terminal connections), page 19-22. [18]

[19] Order bulb separately, see BA9s Bulbs and Associated Accessories.

ZB4BZ009

ZBVB•



ZBE101





Refer to Catalog DIA5ED2121212EN



Catalog Number

ZB4BZ009

Table 19.53: Body/Mounting Collar

For use with Electrical block (contact or light module)

Table 19.54: Add-On Contact Block (with screw clamp terminal connections) [20][21]

· · ·					
Description		Туре о	f Contact	Catalog Number	
		N.O.	N.C.	Gatalog Nulliber	
Standard single contact	blocks (22)(22)	1	_	ZBE101	
Standard Single contact	DIOCKS [22][23]	_	1	ZBE102	
		2	_	ZBE203	
Standard double contact	t blocks [22][23]	_	2	ZBE204	
		1	1	ZBE205	
Special contact blocks for	or low power switching [24]	1	_	ZBE1016	
Special contact blocks ic	i low power switching [24]	_	1	ZBE1026	
Low-power switching	Dusty environment [24]	1	_	ZBE1016P	
Low-power switching	(IP5X, 50 µm dust)	_	1	ZBE1026P	
Staggered contacts	Early make N.O.	1	-	ZBE201	
	Late break N.C.	—	1	ZBE202	
	Overlapping N.O.+N.C.	1	1	ZB4BZ106	
	Staggered N.O.+N.C.	_	2	ZB4BZ107	

Table 19.55: Light Modules (with screw clamp terminal connections) [20][21]

	•	<i>)</i> 1 4 1		
Description	Supply Voltage	Color of Light Source	Catalog Number	
		White	ZBVJ1	
		Green	ZBVJ3	
	12 Vac/Vdc	Red	ZBVJ4	
		Yellow	ZBVJ5	
		Blue	ZBVJ6	
		White	ZBVB1	
		Green	ZBVB3	
	24 Vac/Vdc	Red	ZBVB4	
		Yellow	ZBVB5	
		Blue	ZBVB6	
"hot	110–120 Vac	White	ZBVG1	
protected		Green	ZBVG3	
I EI I		Red	ZBVG4	
		Yellow	ZBVG5	
		Blue	ZBVG6	
		White	ZBVBG1	
		Green	ZBVBG3	
	24–120 Vac/Vdc	Red	ZBVBG4	
		Yellow	ZBVBG5	
		Blue	ZBVBG6	
		White	ZBVM1	
		Green	ZBVM3	
	230–240 Vac	Red	ZBVM4	
		Yellow	ZBVM5	
		Blue	ZBVM6	
Direct supply for BA9s 2.4 W max. bulb not included.	< 250 Vac/Vdc	_	ZBV6	

[20] Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001 for more details.

Electrical components with connection by plug-in connector are available. Refer to Catalog9001CT0001for more details. For Quick-Connect version add "3" to the end of the catalog number Example: ZBE1013 (Quick-Connect size 1 x 0.250 in. or 2 x 0.110 in.). [21] [22]

For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZBE1029). [23]

[24] Cannot stack additional contact blocks onto these blocks.



XB4 Electrical Components Refer to Catalog DIA5ED2121212EN



Table 19.56: Body/Mounting Collar For use Contact

22 mm	Push	Buttons

e with	Catalog Nu		
t block or light module	ZB4BZ0		

Table 40 57: Light Madul -----

Table 19.57: Light Modules
Spring Terminal Connections
Description St

DIe	19.57	: Light	wodules	[25]
	-	1.0		

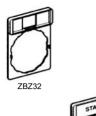
Spring Terminal Connections					
Description	Supply voltage	Color of light source	Catalog Number		
		White	ZBVJ15		
		Green	ZBVJ35		
	12 Vac/Vdc	Red	ZBVJ45		
		Orange	ZBVJ55		
		Blue	ZBVJ65		
		White	ZBVB15		
		Green	ZBVB35		
ntegral LED (to combine with eads for integral LED)	24 Vac/Vdc	Red	ZBVB45		
		Orange	ZBVB55		
protected		Blue	ZBVB65		
Protes		White	ZBVG15		
IFU	110–120 Vac	Green	ZBVG35		
		Red	ZBVG45		
		Orange	ZBVG55		
		Blue	ZBVG65		
		White	ZBVM15		
		Green	ZBVM35		
	230–240 Vac	Red	ZBVM45		
		Orange	ZBVM55		
		Blue	ZBVM65		



ZB4BZ1015

XB4 Legend Holders Refer to Catalog DIA5ED2121212EN







ZBY•101

XR4	l egend	Holders
	Legena	i loiuci 3

Table 19.58: Standard (30 x 40 mm) Legend Holders for 8 x 27 mm Legends

Description	Le	gend	Catalog Numbe	
Description	Color	Text	Catalog Nullibe	
Without legend	_	_	ZBZ32	
With blank legend	Black or red background	—	ZBY2101	
(for engraving)	White or yellow background	_	ZBY4101	
Custom Legend (Specify Engraving) 2 lines of 11 characters (including spaces) maximum per line	Black background	White	ZBY2002	
	Red background	White	ZBY2004	
	White background	Black	ZBY4001	
	Yellow background	Black	ZBY4005	
F	Tollow Buokground	O (black background)	ZBY2146	
		O (red background)	ZBY2931	
		O (red background)		
With legend marked with	Black or red background [26]		ZBY2147 ZBY2148	
international language	Black of Four Background [20]	0-1	ZBY2140 ZBY2178	
		1-11	ZBY2170 ZBY2179	
		1-11 1-0-11	ZBY2186	
		AUTO	ZBY2115	
		AUTO-HAND	ZBY2364	
		AUTO-O-HAND	ZBY2385	
		CLOSE	ZBY2314	
		DOWN	ZBY2308	
		EMERGENCY STOP	ZBY2330	
		FAST	ZBY2328	
		FORWARD	ZBY2305	
		FOR-REV	ZBY2371	
		HAND	ZBY2316	
		HAND-OFF-AUTO	ZBY2387	
		INCH	ZBY2321	
		JOG	ZBY2382	
		LEFT	ZBY2310	
Nith legend marked with	Black or red background [26]	OFF	ZBY2312	
English language	Diack of You Suchground[20]	OFF-ON	ZBY2367	
		ON	ZBY2311	
		OPEN	ZBY2313	
		POWER ON	ZBY2326	
		RESET (red background)	ZBY2323	
		RESET (black background)	ZBY2322	
		REVERSE	ZBY2306	
		RIGHT	ZBY2309	
		RUN	ZBY2334	
		SLOW	ZBY2327	
		START	ZBY2303	
		STOP	ZBY2304	
		STOP-START	ZBY2366	
		UP	ZBY2307	



Components (ZB5AZ101 + ZB5AA2) (ZB5AZ101 + ZB5AA3) (ZB5AZ101 + ZB5AA5) (ZB5AZ101 + ZB5AA6)

(ZB5AZ101 + ZB5AA331)

(ZB5AZ102 + ZB5AA432)

(ZB5AZ101 + ZB5AP2) (ZB5AZ101 + ZB5AP3) (ZB5AZ101 + ZB5AP5) (ZB5AZ101 + ZB5AP6) (ZB5AZ102 + ZB5AP4)

(ZB5AZ102 + ZB5AL4) (ZB5AZ105 + ZB5AL4)

(ZB5AZ101 + ZB5AC2)

(ZB5AZ102 + ZB5AA4) (ZB5AZ105 + ZB5AA2) (ZB5AZ105 + ZB5AA3) (ZB5AZ105 + ZB5AA3) (ZB5AZ105 + ZB5AA4) (ZB5AZ105 + ZB5AA5) (ZB5AZ105 + ZB5AA6)

XB5 Complete Devices



XB5AC21

XB5AL73415

XB5AW73731•5

XB5AA731327

XB5AP51



XB5AL42

 Table 19.59: Non-Illuminated Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Type of	Type of	Contact	Marking	Сар		
Head	Type of Push	N.O.	N.C.	marking	Color	Catalog Number	
					Black	XB5AA21	
		1			Green	XB5AA31	ī
		I	_	_	Yellow	XB5AA51	l
50 m 10 m					Blue	XB5AA61	l
0	Flush		1		Red	XB5AA42	l
S	Flush				Black	XB5AA25	ī
					Green	XB5AA35	
		1	1	_	Red	XB5AA45	l
					Yellow	XB5AA55	ī
					Blue	XB5AA65	
\bigcirc	Flush	1	_	"I" (white)	Green	XB5AA3311	
\bigcirc	Flush	_	1	"O" (white)	Red	XB5AA4322	
	Flush with				Black	XB5AP21	
	clear silicone	1			Green	XB5AP31	ī
(())	boot (color of	I	_	_	Yellow	XB5AP51	1
	pusher				Blue	XB5AP61	ī
	unobscured)		1	-	Red	XB5AP42	
0			1		Red	XB5AL42	l
O	Extended	1	1		Red	XB5AL45	
	Mushroom head Ø 40 mm	1	_	_	Black	XB5AC21	

Table 19.60: Two Button Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Shape of Type of		Contact	Marshalm at	Degree of		0	
Head	Push	N.O.	N.C.	Marking	Protec- tion	Catalog Number	Components	
05	One flush green push* One extended red push**	1	1	*"I" (white) **"O" (white)	IP66 IP69K	XB5AL73415	(ZB5AZ105 + ZB5AL7341)	

Table 19.61: Two Button Push Buttons, Momentary + one white central pilot light (screw clamp terminal connections)

Shape of	Type of	Type of Contact		Marking	Degree of	Pilot Light	Catalog Number
Head	Push	N.O.	N.C.	marking	Protection	Voltage	Oatalog Number
	One flush					24	XB5AW73731B5
0	green push*					120	XB5AW73731G5
	One extended red push** One white central pilot light block	1	1	*"I" (white) **"O" (white)	IP66 IP69K	240	XB5AW73731M5

Table 19.62: Three Button Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Type of	Type of	Contact	Degree of		October Neurober
Head	Push	N.O.	N.C.	Protec- tion	Marking and Cap Color	Catalog Number
	Two flush pushes			IP66	White "I" on green background White "II" on green background *White "Stop" on red background	XB5AA731327
	+ one central projecting red push*	2	1	IP69K	Black "→" on white background White "⇔" on black background *White "Stop" on red background	XB5AA711237

For Legend Holders, see XB5 Legend Holders, page 19-40.

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XB5AT 40 mm PP

XB5AD33

XB5AJ33

XB5AG33





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Table 19.63: Non-Illuminated Trigger Action Emergency Stop Push Buttons, Ø 40
mm (Red) (screw clamp terminal connections)

Shape of		Type	of Contact	Catalog		
Head	Type of Push	N.O.	N.C.	Number	Components	
\bigcirc	Trigger action push-pull [27]	1	1	XB5AT845	(ZB5AZ105 + ZB5AT84)	
0	Trigger action	1	1	XB5AS8445	(ZB5AZ105 + ZB5AS844)	
	turn-to-release [27]	_	2	XB5AS8444	(ZB5AZ104 + ZB5AS844)	
	Trigger action Key release (No. 455) [27]	1	1	XB5AS9445	(ZB5AZ105+ ZB5AS944)	
0	Trigger action Push-pull [27]	_	1	XB5AT842	(ZB5AZ102 + ZB5AT84)	
	Trigger action Turn-to-release [27]	_	1	XB5AS8442	(ZB5AZ102 + ZB5AS844)	
R	Trigger action Key release (No. 455) [27]	_	1	XB5AS9442	(ZB5AZ102 + ZB5AS944)	

Table 19.64: Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) [28]

Shape of	Type of	Type Con		Number and	Type of	Catalog	Components
Head	Operator	N.O.	N.C.	Positio	ons	Number	
		1	—	2-maintained	\searrow	XB5AD21	(ZB5AZ101 + ZB5AD2)
	Standard	1	1	2-maintained	\mathbf{i}	XB5AD25	(ZB5AZ105 + ZB5AD2)
Ø	lever, black			3-maintained	\checkmark	XB5AD33	(ZB5AZ103 + ZB5AD3)
		2	_	3-momentary to center	\Diamond	XB5AD53	(ZB5AZ103 + ZB5AD5)
-		1	_	2-maintained	\searrow	XB5AJ21	(ZB5AZ101 + ZB5AJ2)
Φ	Extended lever, black	2	_	3-maintained	\checkmark	XB5AJ33	(ZB5AZ103 + ZB5AJ3)
				3-momentary to center	\Diamond	XB5AJ53	(ZB5AZ103 + ZB5AJ5)
					\sim	XB5AG21	(ZB5AZ101 + ZB5AG2)
		1	_	2-maintained	\checkmark	XB5AG41	(ZB5AZ101 + ZB5AG4)
	Key (No. 455)			2-momentary to left	$\langle \rangle$	XB5AG61	(ZB5AZ101 + ZB5AG6)
						XB5AG03	(ZB5AZ103 + ZB5AG0)
		2	_	3-maintained	\searrow	XB5AG33	(ZB5AZ103 + ZB5AG3)
NOTE: The s	ymbol 8 indica	ates kev w	ithdrawa	l position(s).			

For Legend Holders, see XB5 Legend Holders, page 19-40.

[27] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850). For contact configurations, see Table 19.78 Sequence of Contacts on Selector Switch Bodies , page 19-32.

[28]







XB5EVG1



XB5AV34



XB5AW31B5



XB5AW3465



XB5AW3335 For legends, see XB5 Legend Holders, page 19-40.

Table 19.65: Pilot Lights with Protected LED™ (screw clamp terminal connections) [29]

Shape of Head		Supply Voltage	Color	Monolithic Units	Complete Units	Complete Unit Components
			White	XB5EVB1	XB5AVB1	(ZB5AVB1 + ZB5AV013)
			Green	XB5EVB3	XB5AVB3	(ZB5AVB3 + ZB5AV033)
		24 Vac/Vdc	Red	XB5EVB4	XB5AVB4	(ZB5AVB4 + ZB5AV043)
		24 Vac/Vuc	Orange	XB5EVB5	XB5AVB5	(ZB5AVB5 + ZB5AV053)
			Blue	XB5EVB6	XB5AVB6	(ZB5AVB6 + ZB5AV063)
			Yellow	XB5EVB8	-	—
		110–120 Vac	White	XB5EVG1	XB5AVG1	(ZB5AVG1 + ZB5AV013)
-			Green	XB5EVG3	XB5AVG3	(ZB5AVG3 + ZB5AV033)
\bigcirc	Protected		Red	XB5EVG4	XB5AVG4	(ZB5AVG4 + ZB5AV043)
\bigcirc	LED		Orange	XB5EVG5	XB5AVG5	(ZB5AVG5 + ZB5AV053)
			Blue	XB5EVG6	XB5AVG6	(ZB5AVG6 + ZB5AV063)
			Yellow	XB5EVG8	-	—
			White	XB5EVM1	XB5AVM1	(ZB5AVM1 + ZB5AV013)
			Green	XB5EVM3	XB5AVM3	(ZB5AVM3 + ZB5AV033)
		230–240 Vac	Red	XB5EVM4	XB5AVM4	(ZB5AVM4 + ZB5AV043)
		230-240 Vac	Orange	XB5EVM5	XB5AVM5	(ZB5AVM5 + ZB5AV053)
			Blue	XB5EVM6	XB5AVM6	(ZB5AVM6 + ZB5AV063)
			Yellow	XB5EVM8	_	—

Table 19.66: Pilot Lights for BA9s Bulb (screw clamp terminal connections)

Shape of Head	Supply Voltage	Color	Catalog Number	Components
Direct supp	ly, for BA9s (i	ncandescent, LED, neon) V < 250 V, 2	.4 W bulb (bulb not	included)
		White	XB5AV61	(ZB5AV6 + ZB5AV01)
\bigcirc	< 250 Vac/	Green	XB5AV63	(ZB5AV6 + ZB5AV03)
·	Vdc	Red	XB5AV64	(ZB5AV6 + ZB5AV04)
		Yellow	XB5AV65	(ZB5AV6 + ZB5AV05)
Transforme	r type with 1.2	VA, 6 V secondary. BA9s incandesce	ent bulb included	
		White	XB5AV31	(ZB5AV3 + ZB5AV01)
\bigcirc	110-120	Green	XB5AV33	(ZB5AV3 + ZB5AV03)
\bigcirc	Vac 50/60 Hz	Red	XB5AV34	(ZB5AV3 + ZB5AV04)
		Yellow	XB5AV35	(ZB5AV3 + ZB5AV05)

Table 19.67: Illuminated Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Descrip-	Typ C <u>or</u>	e of itact	Supply	Color	Catalog Number	Components	
Head	tion	N.O.	N.C.	Voltage	of Push			
lush								
					White	XB5AW31B5	(ZB5AW0B15 + ZB5AW313)	
				0414	Green	XB5AW33B5	(ZB5AW0B35 + ZB5AW333)	
				24 Vac/ Vdc	Red	XB5AW34B5	(ZB5AW0B45 + ZB5AW343)	
100-00	tod			140	Yellow	XB5AW35B5	(ZB5AW0B55 + ZB5AW353)	
	Protected	1	1		Blue	XB5AW36B5	(ZB5AW0B65 + ZB5AW363)	
C	LED	'	· ·		White	XB5AW31G5	(ZB5AW0G15 + ZB5AW313	
					Green	XB5AW33G5	(ZB5AW0G35 + ZB5AW333)	
				110–120 Vac	Red	XB5AW34G5	(ZB5AW0G45 + ZB5AW343)	
				140	Yellow	XB5AW35G5	(ZB5AW0G55 + ZB5AW353	
					Blue	XB5AW36G5	(ZB5AW0G65 + ZB5AW363	
202.20	Direct				White	XB5AW3165	(ZB5AW065 + ZB5AW31)	
	supply for BA9s		1	< 250	Green	XB5AW3365	(ZB5AW065 + ZB5AW33)	
C	2.4 W max.	1		Vac/Vdc	Red	XB5AW3465	(ZB5AW065 + ZB5AW34)	
	bulb not included				Yellow	XB5AW3565	(ZB5AW065 + ZB5AW35)	
		type 2 VA, 6 V	1	110–120	White	XB5AW3135	(ZB5AW035 + ZB5AW31)	
	Transform-				Green	XB5AW3335	(ZB5AW035 + ZB5AW33)	
840-241	er type			Vac 50/60 Hz	Red	XB5AW3435	(ZB5AW035 + ZB5AW34)	
0	secondary.			50/00 112	Yellow	XB5AW3535	(ZB5AW035 + ZB5AW35)	
0	BA9s	1	1		White	XB5AW3145	(ZB5AW045 + ZB5AW31)	
	incandes- cent bulb			230-240	Green	XB5AW3345	(ZB5AW045 + ZB5AW33)	
	included			Vac 50/60 Hz	Red	XB5AW3445	(ZB5AW045 + ZB5AW34)	
					Yellow	XB5AW3545	(ZB5AW045 + ZB5AW35)	
xtended		1	1	1	White	XB5AW11B5	(ZB5AW0B15 + ZB5AW113)	
						XB5AW11B5 XB5AW13B5	(ZB5AW0B15 + ZB5AW113) (ZB5AW0B35 + ZB5AW133)	
				24 Vac/	Green Red	XB5AW13B5 XB5AW14B5	(ZB5AW0B35 + ZB5AW133) (ZB5AW0B45 + ZB5AW143)	
				Vdc	Yellow	XB5AW15B5	(ZB5AW0B45 + ZB5AW143) (ZB5AW0B55 + ZB5AW153)	
	Protected				Blue	XB5AW15B5 XB5AW16B5	(ZB5AW0B55 + ZB5AW153) (ZB5AW0B65 + ZB5AW163)	
(\bigcirc)	I FD	1	1		White	XB5AW10B5	(ZB5AW0B05 + ZB5AW103) (ZB5AW0G15 + ZB5AW113)	
					Green	XB5AW11G5 XB5AW13G5	(ZB5AW0G15 + ZB5AW113)	
				110–120	Red	XB5AW13G5	(ZB5AW0G45 + ZB5AW143)	
				Vac	Yellow	XB5AW14G5 XB5AW15G5	(ZB5AW0G45 + ZB5AW143)	
					Blue	XB5AW15G5 XB5AW16G5	(ZB5AW0G55 + ZB5AW153)	

PUSH BUTTONS AND OPERATOR INTERFACE

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XB5 Non-Illuminated Operators Refer to Catalog DIA5ED2121214EN

Table 19.68: Non-Illuminated Operators, Momentary-Unmarked

XB5 Non-Illuminated Operators







Shape of Head	Type of Push	Cap Color	Catalog Number			
	Flush, without color cap		ZB5AA0			
	Fluch with act of 6 color conc	6 colora [20]	705440			
	Flush, with set of 6 color caps	6 colors [30]	ZB5AA9			
		White	ZB5AA1			
The execution of		Black	ZB5AA2			
		Green	ZB5AA3			
	Flush	Red Yellow	ZB5AA4 ZB5AA5			
0		Blue	ZB5AA6			
		Gray	ZB5AA8			
		White	ZB5AA18			
	Eluch with transportant can	Green	ZB5AA38			
	Flush with transparent cap, for insertion of legend	Red	ZB5AA48			
	5	Yellow	ZB5AA58			
		Blue	ZB5AA68			
		White Black	ZB5AL1 ZB5AL2			
		Green	ZB5AL2 ZB5AL3			
	Extended	Red	ZB5AL4			
•		Yellow	ZB5AL5			
		Blue	ZB5AL6			
		White	ZB5APA1			
		Black	ZB5APA2			
	Booted Flush (clear)	Green	ZB5APA3			
	Cap color unobscured	Red	ZB5APA4			
		Yellow Blue	ZB5APA5 ZB5APA6			
		White	ZB5AP1			
		Black	ZB5AP2			
	Booted Extended (clear)	Green	ZB5AP3			
	Cap color unobscured	Red	ZB5AP4			
		Yellow	ZB5AP5			
		Blue	ZB5AP6			
	Booted (colored) Cap color unobscured	White	ZB5AP1S			
		Black Green	ZB5AP2S ZB5AP3S			
(())		Red	ZB5AP35 ZB5AP4S			
		Yellow	ZB5AP5S			
		Blue	ZB5AP6S			
		White	ZB5AP18			
	Booted (clear)	Green	ZB5AP38			
	for insertion of legend	Red	ZB5AP48			
	Cap color unobscured	Yellow	ZB5AP58			
		Blue White	ZB5AP68 ZB5AA14			
		Black	ZB5AA14 ZB5AA24			
	Flush Plunger	Green	ZB5AA34			
\bigcirc	(with high guard)	Red	ZB5AA44			
		Yellow	ZB5AA54			
	ļ	Blue	ZB5AA64			
		White	ZB5CA1			
		Black	ZB5CA2			
	Flush	Green Red	ZB5CA3 ZB5CA4			
		Yellow	ZB5CA4 ZB5CA5			
		Blue	ZB5CA6			
		White	ZB5CL1			
		White Black	ZB5CL2			
	Extended	White Black Green	ZB5CL2 ZB5CL3			
O	Extended	White Black Green Red	ZB5CL2 ZB5CL3 ZB5CL4			
O	Extended	White Black Green Red Yellow	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5			
O	Extended	White Black Green Red Yellow Blue	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6			
O	Extended	White Black Green Red Yellow Blue White	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16			
	Heads only	White Black Green Red Yellow Blue	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6			
		White Black Green Red Yellow Blue White Black	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16 ZB5AA26			
	Heads only	White Black Green Red Yellow Blue White Black Green Red Yellow	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16 ZB5AA26 ZB5AA36 ZB5AA46 ZB5AA46			
	Heads only	White Black Green Red Yellow Blue White Black Green Red Yellow Blue	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5AA16 ZB5AA26 ZB5AA26 ZB5AA36 ZB5AA46 ZB5AA56 ZB5AA66			
	Heads only	White Black Green Red Yellow Blue White Black Green Red Yellow Blue White	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16 ZB5AA26 ZB5AA26 ZB5AA36 ZB5AA46 ZB5AA66 ZB5AA66 ZB5AA66 ZB5AA66			
	Heads only Recessed (high guard)	White Black Green Red Yellow Blue White Black Green Red Yellow Blue Blue Blue Blue	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16 ZB5AA26 ZB5AA36 ZB5AA36 ZB5AA46 ZB5AA56 ZB5AA66 ZB5AA66 ZB5CA16 ZB5CA26			
	Heads only Recessed (high guard) Heads only	White Black Green Red Yellow Blue White Black Green Red Yellow Blue White Black Green	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16 ZB5AA26 ZB5AA36 ZB5AA46 ZB5AA46 ZB5AA46 ZB5AA46 ZB5AA66 ZB5CA16 ZB5CA26 ZB5CA36			
	Heads only Recessed (high guard)	White Black Green Red Yellow Blue White Black Green Red Yellow Blue Blue Blue Blue	ZB5CL2 ZB5CL3 ZB5CL4 ZB5CL5 ZB5CL6 ZB5AA16 ZB5AA26 ZB5AA36 ZB5AA36 ZB5AA46 ZB5AA56 ZB5AA66 ZB5AA66 ZB5CA16 ZB5CA26			

For Legends, see XB5 Legend Holders, page 19-40.

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[30] Six colored caps included with head (white, black, green, red, yellow, blue).19-28



XB5 Non-Illuminated Operators Refer to Catalog DIA5ED2121214EN

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Table 19.69: Non-Illuminated Operators, Momentary—Premarked

Shape of Head	Type of Push	Mar	king	Cap Color	Catalog Number	
Shape of Heau	Type of Push	Text	Color		Catalog Nulliber	
		1	White	Green	ZB5AA331	
		-	Black	White	ZB5AA131	
		START	White	Green	ZB5AA333	
		START	Black	White	ZB5AA133	
		ON	White	Green	ZB5AA341	
		UN	Black	White	ZB5AA141	
		Т	White	Green	ZB5AA345	
		0	White	Red	ZB5AA432	
	Flush	0	white	Black	ZB5AA232	
		STOP	White	Red	ZB5AA434	
		310F	White	Black	ZB5AA234	
		OFF	White	Red	ZB5AA435	
		UFF		Black	ZB5AA235	
		UP	Black	White	ZB5AA343	
		DOWN	White	Black	ZB5AA344	
		1 1211	Black	White	ZB5AA334	
		[31]	White	Black	ZB5AA335	
		0	White	Red	ZB5AL432	
		0	white	Black	ZB5AL232	
	Extended	STOP	White	Red	ZB5AL434	
	Extended	510P	white	Black	ZB5AL234	
-			White	Red	ZB5AL435	
		OFF	vvnite	Black	ZB5AL235	
			White	Green	ZB5CA331	
\bigcirc	Flush	0	White	Red	ZB5CA432	

Table 19.70: Mushroom Heads, Momentary

Shape of Head	Diameter of Head	Color of Head	Catalog Number
		Black	ZB5AC24
		Green	ZB5AC34
	30 mm	Red	ZB5AC44
		Yellow	ZB5AC54
		Blue	ZB5AC64
-		Black	ZB5AC2
		Green	ZB5AC3
()	40 mm	Red	ZB5AC4
		Yellow	ZB5AC5
		Blue	ZB5AC6
		Black	ZB5AR2
		Green	ZB5AR3
	60 mm	Red	ZB5AR4
		Yellow	ZB5AR5
		Blue	ZB5AR6

For legends, see XB5 Legend Holders, page 19-40.

ZB5AC24 ZB5AC2



ZB5AR4

22 mm Push Buttons



XB5 Non-Illuminated Operators Refer to Catalog DIA5ED2121214EN



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Table 19.71: Non-Illuminated Push-on/Push-off Operators

Shape of Head	Type of Push			
		White	ZB5AH01	
-		Black	ZB5AH02	
	Flush	Green	ZB5AH03	
\bigcirc	Flush	Red	ZB5AH04	
		Yellow	ZB5AH05	
		Blue	ZB5AH06	
		White	ZB5AH1	
	Extended	Black	ZB5AH2	
		Green	ZB5AH3	
	Extended	Red	ZB5AH4	
		Yellow	ZB5AH5	
		Blue	ZB5AH6	
		White	ZB5CH01	
		Black	ZB5CH02	
\bigcirc	Flush	Green	ZB5CH03	
	i idsli	Red	ZB5CH04	
		Yellow	ZB5CH05	
		Blue	ZB5CH06	

Table 19.72: Two Head Operators, Momentary

Shape of Head	Shape of Head Description Marking Cap Color Degree of Protection							
No Marking					Number			
$\left(\mathcal{J} \right)$		—	Green Red		ZB5AA7340			
	Two flush	—	White Black	IP66	ZB5AA7120			
	One flush One extended	_	Green Red	IP69K	ZB5AL7340			
Premarked								
\square		"I" (white) "O" (white)	Green Red		ZB5AA7341			
0	Two flush	"I" (black) "O" (white)	White Black	IP66	ZB5AA7121			
	One flush One extended	"I" (white) "O" (white)	Green Red	IP69K	ZB5AL7341			
Without caps	•							
	Two flush without caps	_	_	IP66 IP69K	ZB5AA79			

Table 19.73: Three Head Operators, Momentary

Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number
Premarked					
		"I" (white) "II" (white)	Green Green		ZB5AA73132
		"←" (white) "→" (white)	Green Green		ZB5AA73133
		"t" (white) "↓" (white)	Green Green		ZB5AA73134
Two flush + one central	Two flush	"+" (white) "-" (white)	Green Green	IP66	ZB5AA73135
projecting red push marked "Stop"		"+" (black) "-" (black)	White White	IP69K	ZB5AA71115
		"←" (black) "→" (white)	White Black		ZB5AA71123
		"t" (black) "∔" (white)	White Black		ZB5AA71124
		"t" (white) "↓" (white)	Black Black		ZB5AA72124
Without caps	•	· · · · · ·	-	•	•
	Two flush without caps	_	_	IP66 IP69K	ZB5AA791









ZB5AA71124





ZB5AC 30 mm

ZB5AS 60 mm



Table 19.74: Mushroom Heads for Maintained Push Buttons								
Shape of Head	Type of Push	Diameter of Head	Color	Catalog Number				
For use in Emergend	y Stop applications							
\bigcirc		30 mm	Red	ZB5AT844				
(\cap)	Trigger action	40 mm	Red	ZB5AT84				
\bigcirc	Push-pull [32]	60 mm	Red	ZB5AX84				
\cap		30 mm	Red	ZB5AS834				
(\bigcirc)	Trigger action	40 mm	Red	ZB5AS844				
	Turn-to-release [32]	60 mm	Red	ZB5AS864				
\bigcirc		30 mm	Red	ZB5AS934				
(\mathbf{D})	Trigger action	40 mm	Red	ZB5AS944 [33]				
Cert .	Key release (No. 455) <i>[32]</i>	60 mm	Red	ZB5AS964				
For use in non-Emer	gency Stop applications							
\frown		30 mm	Black	ZB5AT24				
(\cap)	Push-pull	40 mm	Black	ZB5AT2				
\bigcirc	Fusii-puli	60 mm	Black	ZB5AX2				
\bigcirc		30 mm	Black	ZB5AS42				
(\bigcirc)	Turn-to-release	40 mm	Black	ZB5AS52				
	Tum-to-release	40 11111	Yellow	ZB5AS55				
		60 mm	Black	ZB5AS62				
\bigcirc		30 mm	Black	ZB5AS72				
(db)	Key release	40 mm	Black	ZB5AS12				
Cer	(Ňo. 455)	60 mm	Black	ZB5AS22				

Table 19.75: Circular Legends for Emergency Stop Mushroom Heads (yellow background)

Diameter	Text	Catalog Number
00	Blank	ZBY8101
90 mm	EMERGENCY STOP	ZBY8330
	Blank	ZBY9121
60 mm Deceled	Emergency Stop	ZBY9320
60 mm Bezeled	Prada de Emergencia	ZBY9420
	Not Halt	ZBY9220

For Legends, see XB5 Legend Holders, page 19-40.



ZBY9320

[32] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850).

[33] Other key numbers:

-key no. 421E: add the suffix 12 to the catalog number. ---key no. 458A: add the suffix 10 to the catalog number. ---key no. 520E: add the suffix 14 to the catalog number. ----key no. 3131A: add the suffix 20 to the catalog number.

Example: The catalog number for a Ø 40 mm red mushroom head for a trigger action, maintained push button, with release by key no. 421E becomes: ZB5AS94412.







ZB5AD• Standard Lever

ZB5AG

ZB5AJX• Extended Lever

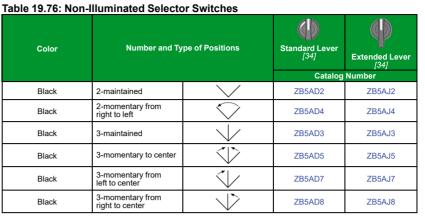


Table 19.77: Non-Illuminated Key Switches

XB5 Selector Switches

Type of Operator	Number and Type	of Positions	Catalog Number [35]
		\sim	ZB5AG2
	2-maintained	S S S S S S S S S S S S S S S S S S S	ZB5AG4
		\searrow	ZB5AG02
	2-momentary from right to left	\sim	ZB5AG6
			ZB5AG0
Key (No. 455)	3-maintained	28	ZB5AG3
[35]		A A A A A A A A A A A A A A A A A A A	ZB5AG5
		\rightarrow	ZB5AG9
NOTE: The symbol ¹ / ₈ indicates key withdrawal position(s).		\rightarrow	ZB5AG09
	3-momentary from left to center		ZB5AG1
	3-momentary to center		ZB5AG7
		No.	ZB5AG8
	3-momentary from right to center	\sim	ZB5AG08
			ZB5AG05

Table 19.78: Sequence of Contacts on Selector Switch Bodies

Unit Type							S	Selector Switches								
Since 1990				2-po:	sition						3-	positi	on			
Note: L=Left, C=Center, R=Right, O=Open, X=Closed		315°		45°		315°										
Operator Plunger	Up															
Position	Down															
Contact Block Locatio	n	L	С	R	L	С	R	L	С	R	L	С	R	L	С	R
Contacts	N.O.	0	0	0	Х	Х	Х	Х	Х	0	0	0	0	0	Х	Х
Contacts	N.C.	Х	Х	Х	0	0	0	0	0	Х	Х	Х	Х	Х	0	0

For Selector Switch Sequence, see Table 19.49 Sequence of Contacts on Illuminated Selector Switch Bodies, page 19-20

[34] For colored lever, add the following code to the end of catalog number: 01-white, 03-green, 04-red, 05-yellow, 06-blue (Example: ZB5AD204). [35]

Other key numbers: -key no. 421E: add the suffix 12 to the catalog number.

-key no. 458A: add the suffix 10 to the catalog number.

- key no. 520E: add the suffix 14 to the catalog number.
 key no. 3131A: add the suffix 20 to the catalog number.
- -key no. 8D1: add the suffix D to the catalog number.

Example: The catalog number for a head with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position, becomes: ZB5AG212





XB5AD912R1K

XB5DS•

XB5KS

ZB5AD28

XB5 Specialty Operators

Table 19.79: Reset Operators

Shape of Head	Actuation	Distance	Text	Color	Catalog Number
Shape of nead	in	mm	Text	Color	Catalog Nulliber
Flush	Adjustable S	haft Shaft or	nly (short) is W404376	32	
				Green	XB5AA831
	Without	Red	XB5AA841		
	0.67-4.72	17-120		Blue	XB5AA861
				Red	XB5AA84101
			R	Blue	XB5AA86102
			Without	Green	XB5AA832
				Red	XB5AA842
	4.72-10.12	120-257		Blue	XB5AA862
			0	Red	XB5AA84201
			R	Blue	XB5AA86202
Extended					
0	0.67-4.72	17–120	0	Red	XB5AL84101
\bigcirc	4.72–10.12	120–257	0	Red	XB5AL84201

Table 19.80: Potentiometer Operator (with Mounting Collar)

Shape of Head	Description	Application	
(Same)	For potentiometer with shaft length 1.73 to 1.97 in.	For shaft Ø 0.25 in. (6.35 mm)	ZB5AD922
	(44 to 50 mm) (potentiometer not included)	For shaft Ø 0.24 in. (6 mm)	ZB5AD912

Table 19.81: Complete Potentiometers

Description	Resistance (k Ω)	Weight (kg/lb)	Catalog Number
+/- 10% linear mode precision	1	0.048/0.106	XB5AD912R1K
complete potentiometer with	4.7	0.048/0.106	XB5AD912R4K7
screw terminals	10	0.048/0.106	XB5AD912R10K
	47	0.048/0.106	XB5AD912R47K
-	100	0.048/0.106	XB5AD912R100K
	470	0.048/0.106	XB5AD912R470K

Table 19.82: Hour Counters (UR E191025, XHNR2 and XHNR8)

Characteristics	Supply Voltage	
Indiantian 0, 0000 0	12–24 Vdc or Vac, 50/60 Hz	XB5DSB
Indication 0–9999.9 (IP40 NEMA 1)	120 Vac, 60 Hz	XB5DSG
	230–240 Vac, 50 Hz	XB5DSM

Table 19.83: Buzzer (UR E191025, XHNR2 and XHNR8)

Characteristics	Supply Voltage	Catalog Number	
	24 Vdc or Vac, 50/60 Hz	XB5KSB	
intermittent (IP40 NEMA 1)	120 Vac, 60 Hz	XB5KSG	

Table 19.84: Two Position Toggle Switch

Shape of Head	Color	Type of Positions	Catalog Number
	Black	Maintained	ZB5AD28
(6)	Black	Momentary	ZB5AD48

For legends, see XB5 Legend Holders, page 19-40.





ZB5AV6



	Table 19.
	Shape o
IL II	
IN THE	
ZB5AV01	

or use with Body Comprising Light Module Color of Lens of Head Catalog Number ZB5AV013 ZB5AV033 ZB5AV043 ZB5AV053 ZB5AV063 White Green Red Protected LED™ only Yellow ZB5AV063 ZB5AV013S ZB5AV033S ZB5AV043S ZB5AV053S ZB5AV063S ZB5AV0633 ZB5AV01 ZB5AV03 ZB5AV04 ZB5AV05 ZB5AV06 ZB5AV07 ZB5AV07 ZB5AV01S ZB5AV03S ZB5AV04S ZB5AV05S ZB5AV06S ZB5AV06S ZB5AV07S ZB5CV013 ZB5CV033 ZB5CV043 ZB5CV053 ZB5CV063

Table 19.86: Complete Bodies (Mounting Collar + Light Module for BA9s Incandescent Bulb, Neon or LED)

Description	Light Source	Supply Voltage (V)	Catalog Number	
Screw clamp terminal connections				
Direct supply	BA9s bulb 2.4 W max. Not included	<250	ZB5AV6	
Direct supply	BA9s incandescent, bulb included	24 V 2 W	ZB5AV624	
Direct supply	BA9s incandescent, bulb included	120 V 2.4 W	ZB5AV6120	
Transformer type 1.2 VA, 6 V secondary	BA9s incandescent bulb included	110–120 Vac, 50/60 Hz	ZB5AV3	
		230–240 Vac, 50/60 Hz	ZB5AV4	
		400–50 Hz	ZB5AV5	
		440–480 Vac, 60 Hz	ZB5AV8	
		550–600 Vac, 60 Hz	ZB5AV9	

Table 19.87: Complete Bodies

(Mounting Collar + Protected LED™ Light Module) [37][38]

Light Source	Supply Voltage	Color of Light Source	Catalog Number			
Screw clamp terminal connections						
	12 Vac/Vdc	White Green Red Yellow Blue	ZB5AVJ1 ZB5AVJ3 ZB5AVJ4 ZB5AVJ5 ZB5AVJ6			
Protected	24 Vac/Vdc	White Green Red Yellow Blue	ZB5AVB1 ZB5AVB3 ZB5AVB4 ZB5AVB5 ZB5AVB5			
LED	24–120 Vac/Vdc	White Green Red Yellow Blue	ZB5AVBG1 ZB5AVBG3 ZB5AVBG4 ZB5AVBG5 ZB5AVBG6			
	110–120 Vac	White Green Red Yellow Blue	ZB5AVG1 ZB5AVG3 ZB5AVG4 ZB5AVG5 ZB5AVG6			
Flashing Protected	24 Vac/Vdc	White Green Red Yellow Blue	ZB5AV18B1 ZB5AV18B3 ZB5AV18B4 ZB5AV18B5 ZB5AV18B5 ZB5AV18B6			
LED	110–120 Vac	White Green Red Yellow Blue	ZB5AV18G1 ZB5AV18G3 ZB5AV18G4 ZB5AV18G5 ZB5AV18G5			

[36] For use in bright ambient conditions (i.e., sunlight).

ZB5AV••

- For Quick-Connect version, add "3" to the end of the catalog number Example: ZB5AVJ13 (Quick-Connect size 1 x 0.250" or 2 x 0.110"). [37]
- [38] For 240 V LED, replace the "B" or "G" with "M". (Example: ZB5AVB1 (24V) to ZB5AVM1 (240V))

ZB5AV3

XB5 Pilot Lights

Table 19.85: Pilot Light Heads

			Blue
	\bigcirc	Protected LED only Fresnel (jeweled) lens [36]	White Green Red Amber Blue
		For BA9s incandescent bulb, neon or LED only	White Green Red Yellow Blue Clear
		For BA9s incandescent bulb, neon or LED Fresnel (jeweled) lens	White Green Red Amber Blue Clear
		Protected LED only	White Green Red Yellow Blue
	For legends, refer to XE	35 Legend Holders, page 19-40.	





ZB5AW313



ZB5AW143



ZB5CW313

ZB5AW33

XB5 Illuminated Operators

Table 19.88: Heads for Momentary Illuminated Push Buttons

Shape of Head Type of Push		Color	Catalog Number	
Only use with Protected L	ED™ light modules			
		White	ZB5AW313	
		Green	ZB5AW333	
	Flush	Red	ZB5AW343	
		Yellow	ZB5AW353	
		Blue	ZB5AW363	
		White	ZB5AW513	
		Green	ZB5AW533	
	Flush with clear boot	Red	ZB5AW543	
		Yellow	ZB5AW553	
		Blue	ZB5AW563	
		White	ZB5AA18	
		Green	ZB5AA38	
	Flush for insertion of legend	Red	ZB5AA48	
		Yellow	ZB5AA58	
		Blue	ZB5AA68	
		White	ZB5AW113	
		Green	ZB5AW133	
	Extended	Red	ZB5AW143	
		Yellow	ZB5AW153	
		Blue	ZB5AW163	
		White	ZB5CW313	
		Green	ZB5CW333	
	Flush for insertion of legend	Red	ZB5CW343	
		Yellow	ZB5CW353	
		Blue	ZB5CW363	
		White	ZB5CW113	
		Green	ZB5CW133	
	Extended	Red	ZB5CW143	
		Yellow	ZB5CW153	
		Blue	ZB5CW163	
Only use with light modul	es for a BA9s incandescent bulb	, neon or LED		
		White	ZB5AW31	
100-20		Green	ZB5AW33	
	Fluch	Red	ZB5AW34	
	Flush	Yellow	ZB5AW35	
)		Blue	ZB5AW36	
		Clear	ZB5AW37	
		White	ZB5AW11	
100-20		Green	ZB5AW13	
	Estern de d	Red	ZB5AW14	
	Extended	Yellow	ZB5AW15	
		Blue	ZB5AW16	
1		Clear	ZB5AW17	

Table 19.89: Illuminated Push-on/Push-off Operators

Shape of Head	Type of Push	Color of Lens	Catalog Number
nly use with Protected LED	D light modules		
		White	ZB5AH013
		Green	ZB5AH033
	Flush	Red	ZB5AH043
		Yellow	ZB5AH053
		Blue	ZB5AH063
		White	ZB5AH13
		Green	ZB5AH33
	Extended	Red	ZB5AH43
		Yellow	ZB5AH53
		Blue	ZB5AH63

For legends, refer to XB5 Legend Holders, page 19-40.

22 mm Push Buttons





ZB5AW7•



ZB5AT8643M

ZB5AK1213



ZB5AK1463

XB5 Illuminated Operators

Refer to Catalog DIA5ED2121214EN



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Table 19.90: Two Button with Clear Pilot Light, Mome
--

Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number
No Marking					
Protected		-	Green Red		ZB5AW7A3740
	Two flush	—	White Black	IP66	ZB5AW7A1720
Frotected D	One flush One extended	_	Green Red	IP69K	ZB5AW7L3740
Premarked					
Protected		"I" (white) "O" (white)	Green Red		ZB5AW7A3741
	Two flush	"I" (black) "O" (white)	White Black		ZB5AW7A1721
Protected D	One flush One extended	"I" (white) "O" (white)	Green Red	IP66	ZB5AW7L3741
Frotected D	Two flush	"t" (black) "ŧ" (white)	White Black	IP69K	ZB5AW7A1724
Protected D	Two flush	"+" (black) "-" (black)	White White		ZB5AW7A1715
Without caps					-
Two flush without caps		_	_	IP66, IP69K	ZB5AW7A9

Table 19.91: Heads for Maintained Illuminated Push Buttons

Shape of Head	Type of Push	Color	Catalog Number						
Only use with Protected LED light modules									
		White	ZB5AW713						
	Turn-to-Release Mushroom (40 mm)	Green	ZB5AW733						
		Red	ZB5AW743						
)	Yellow	ZB5AW753						
		Blue	ZB5AW763						

Table 19.92: Emergency Stop, Trigger Action and Mech Latching Push Button with Mech State Indicator for Elevator Inspection Box Applications—Heads Only

Shape of Head	Type of Reset	Color	Catalog Number					
[O]	Push-pull (40 mm)	Red	ZB5AT8643M					
NOTE: ZB5AT8643M not to be used with ZBZ16* guard.								

Table 19.93: Illuminated Selector Switches, Standard Lever

Shape of Head	Number and Type of Positi	Catalog Number [39]							
Only use with Protected LED light modules									
	2-maintained	maintained							
	2-momentary from right to left	\sim	ZB5AK14•3						
	3-maintained	\checkmark	ZB5AK13•3						
	3-momentary to center	\checkmark	ZB5AK15•3						
	3-momentary from right to center	\checkmark	ZB5AK18•3						
	3-momentary from left to center	\checkmark	ZB5AK17•3						

Table 19.94: Sequence of Contacts on Selector Switch Bodies

Unit Type		Selector Switches														
		2-position					3-position									
Note: L=Left, C=Center, R=Right, O=Open, X=Closed		315°		Q		5°	31	315°								
Operator Plunger Position	Up															
	Down															
Contact Block Location	act Block Location L C		С	R	L	С	R	L	С	R	L	С	R	L	С	R
Contacts	N.O.	0	0	0	Х	Х	Х	Х	Х	0	0	0	0	0	Х	Х
	N.C.	Х	Х	Х	0	0	0	0	0	Х	Х	Х	Х	Х	0	0

For legends, see XB5 Legend Holders, page 19-40.



ZB5AZ101

ZB5AW0++1

XB5 Electrical Components

NOTE: For the Quick-Connect version, add the numeral **3** to the end of the number. Example: ZB5AZ101**3** (Quick-Connect size 1 x 0.250" or 2 x 0.110").

Table 19.95: Contact Blocks

(Mounting Collar with Contact Blocks) [40] [41] [42]

Description	Type of	Catalog Number	
Description	N.O.	N.C.	
	1		ZB5AZ101
	_	1	ZB5AZ102
Screw clamp terminal	2		ZB5AZ103
connections	_	2	ZB5AZ104
	1	1	ZB5AZ105
	1	2	ZB5AZ141

Table 19.96: Complete Bodies

(Mounting Collar + Single Contact Block + Light Module with Protected LED™)

	Type of Contact [43]			Supply Vo	oltage [44]
Light Source			Color	24 Vac/Vdc	110–120 Vac
	N.O.	N.C.		Catalog	Number
Screw clamp terr	ninal conr	ections			
			White	ZB5AW0B11	ZB5AW0G11
			Green	ZB5AW0B31	ZB5AW0G31
	1	—	Red	ZB5AW0B41	ZB5AW0G41
			Yellow	ZB5AW0B51	ZB5AW0G51
			Blue	ZB5AW0B61	ZB5AW0G61
			White	ZB5AW0B12	ZB5AW0G12
		1	Green	ZB5AW0B32	ZB5AW0G32
	—		Red	ZB5AW0B42	ZB5AW0G42
Protected			Yellow	ZB5AW0B52	ZB5AW0G52
protect			Blue	ZB5AW0B62	ZB5AW0G62
I FU			White	ZB5AW0B13	ZB5AW0G13
			Green	ZB5AW0B33	ZB5AW0G33
0	2	_	Red	ZB5AW0B43	ZB5AW0G43
			Yellow	ZB5AW0B53	ZB5AW0G53
			Blue	ZB5AW0B63	ZB5AW0G63
			White	ZB5AW0B15	ZB5AW0G15
			Green	ZB5AW0B35	ZB5AW0G35
	1	1	Red	ZB5AW0B45	ZB5AW0G45
			Yellow	ZB5AW0B55	ZB5AW0G55
			Blue	ZB5AW0B65	ZB5AW0G65

Table 19.97: Mounting Collar, Contact Block and Light Module (with screw clamp terminal connections)

Supply	Light Source	Supply Voltage	Type of Contact [43]		Color of Light Source	Catalog Number	
		voltage	N.O.	N.C.	Source		
Screw clamp terr	Screw clamp terminal connections						
			1		_	ZB5AW061	
Direct supply 2.4 W max, bulb	< 250 Vac/		1	-	ZB5AW062		
Direct supply	2.4 W max. bulb Not included	Vdc	2		-	ZB5AW063	
	Notificiaded		1	1		ZB5AW065	
Transformer		110-120 Vac	1	I		ZB5AW031	
type 1.2 VA, 6 V secondary BA9s incandescent bulb included	50/60 Hz	1	1	_	ZB5AW035		
		230-240 Vac	1	I	_	ZB5AW041	
	buib iliciudeu	50/60 Hz	1	1	_	ZB5AW045	

ZB5AW065



PUSH BUTTONS AND OPERATOR INTERFACE ດ

[40] For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZB5AZ1029).

- [41]
- Electrical components with connection by printed circuit board pins are available. Refer to Catalog9001CT0001 for more information. Electrical components with connection by plug-in connector are available. Refer to Catalog9001CT0001 for more information. Can be fitted with additional contact blocks, see Table 19.99 Add-On Contact Blocks, page 19-38. [42]

[43]

[44] For 240V LED, replace the "B" or "G" with "M". (Example: change "ZB5AW0B11 (24 V) to ZB5AW0M11 (240 V))

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ZBVB•



ZBE101





Table 19.98: Body/Mounting Collar

For use with Electrical block (contact or light module)

Catalog Number ZB5AZ009

Table 19.99: Add-On Contact Block (with screw clamp terminal connections) [45][46]

Description		Туре с	of Contact	Catalog Number	
Description	Beschption		N.C.		
Standard single contact	blocks[47][48]	1	—	ZBE101	
otandard single contact	blocks[+/][+0]	_	1	ZBE102	
		2	_	ZBE203	
Standard double contact	t blocks <i>[47][48]</i>	_	2	ZBE204	
		1	1	ZBE205	
	Special contact blocks for low-power switching		—	ZBE1016	
[49]		—	1	ZBE1026	
	Dusty environment	1	_	ZBE1016P	
Low-power switching	[49] (IP5X, 50 µm dust)	—	1	ZBE1026P	
	Early make N.O.	1	_	ZBE201	
Staggered contacts	Late break N.C.	—	1	ZBE202	
	Overlapping N.O. + N.C.	1	1	ZB4BZ106	
	Staggered N.O. + N.O.	_	2	ZB4BZ107	

Table 19.100: Light Modules (with screw clamp terminal connections)[45][46]

Description	Supply Voltage	Color of Light Source	Catalog Number
		White	ZBVJ1
		Green	ZBVJ3
	12 Vac/Vdc	Red	ZBVJ4
		Yellow	ZBVJ5
		Blue	ZBVJ6
		White	ZBVB1
		Green	ZBVB3
	24 Vac/Vdc	Red	ZBVB4
		Yellow	ZBVB5
		Blue	ZBVB6
protected		White	ZBVG1
Protectoon		Green	ZBVG3
I EI I	110–120 Vac	Red	ZBVG4
IED		Yellow	ZBVG5
		Blue	ZBVG6
		White	ZBVBG1
		Green	ZBVBG3
	24–120 Vac/Vdc	Red	ZBVBG4
		Yellow	ZBVBG5
		Blue	ZBVBG6
		White	ZBVM1
		Green	ZBVM3
	230–240 Vac	Red	ZBVM4
		Yellow	ZBVM5
		Blue	ZBVM6
Direct supply for BA9s 2.4 W max. bulb not included)	< 250 Vac/Vdc	_	ZBV6

20 PUSH BUTTONS AND OPERATOR

[45]

- [46] [47]
- Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001 for more details. Electrical components with connection by plug-in connector are available. Refer to Catalog 9001CT0001 for more details. For Quick-Connect version add "3" to the end of the catalog number (Example: ZBE1013) (Quick-Connect size 1 x 0.250 in. or 2 x 0.110 in.).
- For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZBE1029). [48]

[49] Cannot stack additional contact blocks onto these blocks.



ZB5AZ009

XB5 Electrical Components Refer to Catalog DIA5ED2121214EN

Table 19.101: Body/Mounting Collar

Int: Body/wounting Collar	
	Catalog Number

For use with Contact block or light module

ZB5AZ009

Table 19.102: Light Modules [50]

Spring Terminal Connections				
Description	Supply voltage	Color of light source	Catalog Number	
		White	ZBVJ15	
		Green	ZBVJ35	
	12 Vac/Vdc	Red	ZBVJ45	
		Orange	ZBVJ55	
		Blue	ZBVJ65	
		White	ZBVB15	
Integral LED (to combine with heads for integral LED)		Green	ZBVB35	
	24 Vac/Vdc	Red	ZBVB45	
		Orange	ZBVB55	
Protected		Blue	ZBVB65	
	110–120 Vac	White	ZBVG15	
IFD		Green	ZBVG35	
		Red	ZBVG45	
		Orange	ZBVG55	
		Blue	ZBVG65	
		White	ZBVM15	
		Green	ZBVM35	
	230-240 Vac	Red	ZBVM45	
		Orange	ZBVM55	
		Blue	ZBVM65	

[50] Additional blocks cannot be attached to the back of these contact blocks or light modules. However, spring terminal contact blocks can be mounted behind screw terminal contact blocks.



ZB4BZ1015

ZBZ32 ZBY-101

ZBY2303



XB5 Legend Holders

Table 19.103: Standard (30 x 40 mm) Legend Holders for 8 x 27 mm Legends

Description	Le	gend	Catalog Number	
Description	Color	Text		
Without legend	_	_	ZBZ32	
With blank legend	Black or red background	_	ZBY2101	
(for engraving)	White or yellow background	_	ZBY4101	
Custom Legend	Black background	White	ZBY2002	
(Specify Engraving) 2 lines of 11 characters	Red background	White	ZBY2004	
2 lines of 11 characters	White background	Black	ZBY4001	
(including spaces) maximum per line	Yellow background	Black	ZBY4001	
	Tellow background	O (black background)		
		V	ZBY2146	
		O (red background)	ZBY2931	
With legend marked with	Black or red background [51]		ZBY2147	
international language	Black of fed background [51]	11	ZBY2148	
		0-1	ZBY2178	
		1-11	ZBY2179	
		1-0-11	ZBY2186	
		AUTO	ZBY2115	
		AUTO-HAND	ZBY2364	
		AUTO-O-HAND	ZBY2385	
		CLOSE	ZBY2314	
		DOWN	ZBY2308	
		EMERGENCY STOP	ZBY2330	
		FAST	ZBY2328	
		FORWARD	ZBY2305	
		FOR-REV	ZBY2371	
		HAND	ZBY2316	
		HAND-OFF-AUTO	ZBY2387	
		INCH	ZBY2321	
		JOG		
		LEFT	ZBY2382	
With legend marked with			ZBY2310	
English language	Black or red background[51]	OFF	ZBY2312	
		OFF-ON	ZBY2367	
		ON	ZBY2311	
		OPEN	ZBY2313	
		POWER ON	ZBY2326	
		RESET (red background)	ZBY2323	
		RESET (black background)	ZBY2322	
		REVERSE	ZBY2306	
		RIGHT	ZBY2309	
		RUN	ZBY2334	
		SLOW	ZBY2327	
		START	ZBY2303	
		STOP	ZBY2304	
		STOP-START	ZBY2366	
		UP	ZBY2307	





XB5RFA02



ZBRT1

New!) XB5R Plastic and XB4R Metal Wireless, Batteryless Push Buttons Table 19.104: Ready-to-use Packs [52]

Description	Transmitter Type	Voltage Receiver V	Receiver Type	Catalog Number
Ø 22 mm plastic head + 1 set of 10 different colored caps ~/ Programmable receiver with		Programmable receiver with:	XB5RFA02	
transmitter - 1 receiver The push button	smitter Ø 22 mm metallic head 24 to 240 - 2 relay outputs type receiver + 1 set of 10 different push button colored caps	- 2 relay outputs type RT 3A[54]	XB4RFA02	
and receiver are factory-paired [53]	Ø 22 mm plastic head	_	Non-programmable receiver	XB5RFB01
lactory-paired [55]	Ø 22 mm metallic head	24	with: - 1 relay output type RT 3A[55]	XB4RFB01
Packs include: - 1 push button/ transmitter in	Ø 22 mm plastic head + 1 set of 10 different colored caps	∼/ 24 to 240	Programmable receiver with: - 2 relay outputs type RT 3A[54]	XB5RMA04
handy box [56] - 1 receiver The push button and receiver are factory-paired [53]	Ø 22 mm metallic head + 1 operator head	 24	Non-programmable receiver with: - 1 relay output type RT 3A[55]	XB5RMB03

Table 19.105: Transmitter Components for Wireless, Batteryless Push Buttons

Description	Type of Push	Cap Color	Catalog Number
	1 radio frame sent at the push of the button	—	ZBRT1
Transmitter for wireless, batteryless push buttons [57] [58]	Dual Action: 1 radio frame sent at the push of the button 1 radio frame sent at therelease of the button	_	ZBRT2
	Plastic	White	ZB5RTA1
		Black	ZB5RTA2
		Green	ZB5RTA3
		Green with white "I"	ZB5RTA331
Wireless, batteryless push	Plastic	Red	ZB5RTA4
buttons including: - a transmitter fitted with		Red with white "O"	ZB5RTA432
mounting collar		Yellow	ZB5RTA5
- a spring return push button		Blue	ZB5RTA6
head with clipped-in cap [59]		White	ZB4RTA1
		Black	ZB4RTA2
	Metal	Green	ZB4RTA3
		Red	ZB4RTA4
		Yellow	ZB4RTA5

[52] Wireless and batteryless push button and receiver, factory-paired.

- [53] For additional components, these devices can be field-paired.
- [54] Supplied with output function set to momentary. Outputs programmable to maintained and Start-Stop.
- [55] Non-programmable momentary output function.
- [56]
- Supplied with a magnet. Mounting collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately. [57]
- Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible. [58]
- [59] This cap is fitted by Schneider Electric and cannot be removed (risk of damage).



ZBRRA



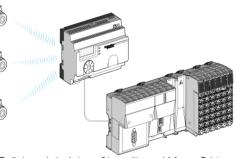


ZBRACS



New!)

ZBRA1



Radio transmission between 3 transmitters and 1 Access Point

XB5R Plastic and XB4R Metal Wireless, **Batteryless Push Buttons**



Refer to Catalog DIA5ED2121214EN

Table 19.106: Programmable Receivers

Description	Output Type	Voltage Receiver V	Catalog Number
Programmable receivers equipped with:	4 PNP outputs, 200 mA / 24 V	24	ZBRRC
- 2 buttons ("Scroll-through", "Ok")	2 relay outputs type RT 3A [60]	~/ <u></u> 24 to 240	ZBRRD
- 6 indicating LEDs (power ON, outputs, signal strength)	2 relay outputs type RT 3A [60]	~/ <u></u> 24 to 240	ZBRRA

NOTE: Also refer to Access Point for advanced features in programmable receivers.

Table 19.107: Boxes for Wireless, Batteryless Push Buttons

Description	For use with:	Marking	Sold in lots of	Catalog Number
	For mobile and fixed applications with	1 cut-out	1	ZBRM21
Mobile box, plastic, empty [61]	wireless and batteryless push buttons	2 cut-outs	1	ZBRM22
	Support for tube or wall specific for ZBRM21 and ZBRM22	_	1	ZBRACS
Empty plastic boxes for	For fixed or on-board wireless and	1 cut-out	1	XALD01H7
wireless and batteryless push buttons [62]	batteryless push buttons	2 cut-outs	1	XALD02H7

New!) XB5R and XB4R Accessories

Table 19.108: Accessories

Description	For use with:	Marking	Sold in lots of	Catalog Number	
External antenna [63]	Between transmitter and receiver, used to increase the range and/or get around obstacles	24 to 240 V - 5m cable - 1 power-ON LED - 2 LEDs reception/transmission	1	ZBRA1	
Mounting collar		Plastic	10	ZB5AZ009	
Would hill g collai	-	Metal	10	ZB4BZ009	
External antenna access point 2 m/6.56 ft cable with 1 RF connector	Access point (ZBRN1 or ZBRN2) Used to increase the distance of				
NOTE: The ZBRN2 has em with a communication modu	bedded communication port for Mo le to support different protocols.	odbus Serial Line, where as	ZBRN1 mu	ust be plugged	

ZBRN1 and ZBRN2 Access Points

The access point of Harmony® wireless and batteryless range provides network connectivity openness by operating as an intermediate equipment between the transmitter and the PLC (Programmable Logic Controller). The access point receives radio signals from the transmitters and converts them to communication protocols. Based on the model, it is connected to the PLC using either RS485 Modbus™ Serial line or Modbus/TCP protocol.

The access point can be used with transmitters such as XB4R and XB5R wireless and batteryless push buttons, rope pull switch, mushroom head push button (1), and all PLCs that support Modbus Serial line over RS485 or Modbus/TCP protocols.

Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 60 radio transmitters

- Supplied with output function set to momentary Outputs programmable to maintained and Start-Stop. [60]
- [61] Cannot be used for wired contacts (no cable gland outlet).
- Box equipped with cable gland outlets, compatible with Harmony ZB5 push button heads. [62] [63] Not wired to the receiver.



XB5R Plastic and XB4R Metal Wireless, Batteryless Push Buttons

Refer to Catalog DIA5ED2121214EN

Hall 200

ZBRN2



ZBRN1



Table 19.109: Configurable Access Points							
Description	Data Function	Output Type	Receiver Voltage (V)	Catalog Number			
Configurable access points equipped with: - 7-segment display - jog dial - 8 indicating LEDs	Monostable (adjustable from 100 ms to 1 s)	2 RS485 connectors that provides connectivity for Modbus RS485 Serial line	∼/ <u></u> 24 to 240	ZBRN2			
(power ON, functions mode, communication status, signal strength) - external antenna connector and protective plug	Monostable (adjustable from 100 ms to 1 s)	1 slot for communication module ZBRCETH (should be ordered separately)	∼/ 24 to 240	ZBRN1			

Table 19.110: Communication Module

Description	Characteristics	Communication Port	Catalog Number					
Modbus/TCP network communication module	Modbus/TCP protocol with embedded Web pages in 5 languages for configuration, monitoring and diagnostics	2 RJ45 connectors that provides connectivity for daisy chain and daisy chain loop operation	ZBRCETH					

XB7 Push Buttons Refer to Catalog DIA5ED2120503EN









XB7NH2•





XB7NA4234



XB7NL4232

New! XB7 Push Buttons

Table 19.111: Push Buttons Without Marking

					5			
Shape	Type of	Type of	Contact	Mar	rking	Color of	Sold in	Ostala a Norah an
of Head	Push Button	N.O.	N.C.	Text	Color	Push Button	Lots of	Catalog Number
Spring re	turn push buttoi	n without n	narking					
		1	—			White	10	XB7NA11
		1	_	-		Black	10	XB7NA21
		1	_		—	Green	10	XB7NA31
		1	—	_		Yellow	10	XB7NA81
~		1	1	_	_	White	10	XB7NA15
\bigcap	Flush	1	1	_	_	Black	10	XB7NA25
\bigcirc		1	1	_	_	Green	10	XB7NA35
-		1	1	_	_	Red	10	XB7NA45
		1	1	_	_	Blue	10	XB7NA65
		_	1	_		Red	10	XB7NA42
		2		_	_	Black	10	XB7NA23
		2	_		—	Green	10	XB7NA33
		_	1	_		Red	10	XB7NL42
\bigcirc	Projecting	1	1	_	_	Red	10	XB7NL45
Latching	push button wit	hout marki	ing					
\bigcirc		1	_	_	_	Black	10	XB7NH21
	Flush	1	_	-		Green	10	XB7NA21 XB7NA31 XB7NA31 XB7NA15 XB7NA25 XB7NA35 XB7NA35 XB7NA45 XB7NA45 XB7NA45 XB7NA42 XB7NA23 XB7NA33 XB7NL42 XB7NL45
\bigcirc	FIUSH	1	1	_	_	Black	10	XB7NH25
_		1	1		_	Green	10	XB7NH35

Table 19.112: Push Buttons With Marking

Shape	Type of	Type of	Contact	Mar	king	Color of	Sold in	Optology Neuroberg
of Head	Push Button	N.O.	N.C.	Text	Color	Push Button	Lots of	Catalog Number
Spring re	turn push butto	n with marl	king					
		1	1		White	Green	10	XB7NA3131
		1	I	START	White	Green	10	XB7NA3133
-		1	-	+	Black	White	10	XB7NA11341
\bigcap	Flush	1	I	Ŷ	White	Black	10	XB7NA21343
\smile	Flush	1	I	Ŷ	White	Black	10	XB7NA21341
		-	1	STOP	White	Red	10	XB7NA4234
		1	1	STOP	White	Red	10	XB7NA4534
		1	1	t	Black	White	10	XB7NA15341
		1	1	0	White	Red	10	XB7NL4532

<mark>2</mark>9

PUSH BUTTONS AND OPERATOR INTERFACE





New XB7 Illuminated Push Buttons with Projecting Push

Table 19.113: With Integral LED

Shape of	Type of push	Color of	Sold in	Unit refere	ence by supply vol	tage [64]
head	and contacts	lens	lots of	24 V ~/	120 V \sim	230 V ~ XB7NW33M1 XB7NW34M1 XB7NW34M2
		Green	10	XB7NW33B1	_	XB7NW33M1
Spring return push with N.O.	Ded	10	XB7NW34B1	XB7NW34G1	XB7NW34M1	
	Spring return	Red	10	XB7NW34B2	_	XB7NW34M2
	push with N.O. and N.C.	Orange	10	XB7NW35B1	—	_
()	contacts [64]	Blue	10	XB7NW36B1	_	_
\bigcirc		Clear	10	XB7NW37B1	_	_
	Yellow	10	XB7NW38B1	_	_	
	Latebing much	Green	10	XB7NJ03B1	_	XB7NJ03M1
Latching push	Latering push	Red	10	XB7NJ04B1	_	XB7NJ04M1

New! XB7 Pilot Lights

Table 19.114: With Integral LED

Shape of	Type of light		Sold in	Id in Catalog Number by supply voltage [65]				
head	source (included)	Color of lens	lots of	24 V ∼/ 	120 V \sim	230 V ~ XB7EV03MP XB7EV04MP XB7EV05MP XB7EV06MP XB7EV07MP XB7EV08MP		
		Green	10	XB7EV03BP	XB7EV03GP	XB7EV03MP		
-		Red	10	XB7EV04BP	XB7EV04GP	XB7EV04MP		
\bigcirc	Integral LED	Yellow	10	XB7EV05BP	XB7EV05GP	XB7EV05MP		
		Blue	10	XB7EV06BP	XB7EV06GP	XB7EV06MP		
		Clear	10	XB7EV07BP	XB7EV07GP	XB7EV07MP		
		Orange	10	XB7EV08BP	XB7EV08GP	XB7EV08MP		

Table 19.115: With BA 9s base fitting

Shape of	Supply Color of it With resistor, for 130 V, 2.6 W bulb Supply voltage: 230 V ~, 50-60 Hz Green Orange Direct for BA 9s base fitting Green Red	Color of long	Sold in	Catalog Number[65]		
head	ouppiy	COLOR OF IERIS	lots of	With bulb	Without bulb	
		Green	10	XB7EV73P	_	
		Red	10	XB7EV74P	_	
		Yellow	10	XB7EV75P	—	
\bigcirc	230 V~,	Orange	10	XB7EV78P	—	
		Green	10	-	XB7EV63P	
)		Red	10	-	XB7EV64P	
	incandescent bulb	Yellow	10	I	XB7EV65P	
	Supply voltage:	Clear	10	-	XB7EV67P	
	≤ 250 V [66]	Orange	10	_	XB7EV68P	



XB7EV08•P

[64] All product references ending in "1" are for products with "NO" contacts (example: XB7NW34B1). All product references ending in "2" are for products with "NC" contacts (example: XB7NW34B2).

[65] For Faston connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference. Example: XB7EV07BP becomes XB7EV07BP3.

[66] Bulb characteristics for direct supply pilot lights: 250 V, 2.6 W.







New!)

т

XB7ND2



Table 19.1 [°]	16: Title						
Shape of	Type of			Number		Sold in	Catalog
head	operator	N.O.	N.C.	of pos	sitions	lots of	Number
		1	_	2, maintained	\sim	10	XB7ND21
	Standard handle,	1	1	2, maintained	\sim	10	XB7ND25
	black	2	_	3, maintained	\checkmark	10	XB7ND33
	Key (key No.	1	_	2, key withdrawal in LH position	\checkmark	10	XB7NG21
SK	(key No. 455)	2	_	3, key withdrawal in center position	× R	10	XB7NG33

NOTE: The symbol ${f R}$ indicates key withdrawal position(s).

XB7 Selector Switches and Key Switches

New!) **XB7 Mushroom Head Push Buttons**

Table 19.117: Ø 40 mm Emergency Stop Trigger Action and Mechanically Latching **Mushroom Head Pushbuttons**

Shape of	Type of push	Standards	Type of	f contact	Color	Sold in	Iots of Numbers 10 XB7NS8442 10 XB7NS8445 10 XB7NS8444 10 XB7NS8444 10 XB7NS8444 10 XB7NS8445 10 XB7NS8444 10 XB7NS8444 10 XB7NT842 10 XB7NT845 10 XB7NT844
head	Type of push	Stanuarus	N.O.	N.C.	00101	lots of	Numbers
Turn to release		-	1	Red	10	XB7NS8442	
		1	1	Red	10	XB7NS8445	
	EN/IEC 60204-1, EN/ISO 13850.	-	2	Red	10	XB7NS8444	
\bigcirc		EN/IEC 60947-5-	I	1	Red	10	XB7NT842
(\mathbf{O})	Push-pull	5,	1	1	Red	10	XB7NT845
\bigcirc	Fusii-puli	Machinery directive 2006/42/ EC	-	2	Red	10	XB7NT844
\bigcirc		and UL	1	2	Red	10	XB7NS9444
	Key release (n° 455)		-	1	Red	10	XB7NS9445

Table 19.118: Circular Legends, Yellow, For Mushroom Head Push Buttons

Used for "Emergency Stop" function [67]				
Conforming to Standards	Diameter (mm)	Marking on Yellow Background	Catalog Number	
		ARRET D'URGENCE	ZBY9130	
	60	NOT-HALT	ZBY9130 ZBY9230 ZBY9430 ZBY9630 ZBY8130 ZBY8330 ZBY8430	
	00	PARADA DE EMERGENCIA		
EN/IEC 60204-1 and		ARRESTO DE EMERGENZA	ZBY9630	
EN/ISO 13850 [67]		ARRET D'URGENCE	ZBY8130	
	90	EMERGENCY STOP	ZBY8330	
	90	PARADA DE EMERGENCIA	ZBY8430	
		ARRESTO DE EMERGENZA	ZBY8630	



XB7NS84

ZBY9330



Type K Heavy Duty Operators

Table 19.119: Non-Illuminated Momentary Push Button Operators

De	scription	Color	Operator with 1 N.O. and 1 N.C. Contact (KA1) [1]	Operator with 1 N.O. Contact (KA2) [1]	Operator with 1 N.C. Contact (KA3) [1]	with No Contacts [1]
		Black	KR1BH13	KR1BH5	KR1BH6	KR1B
		Red	KR1RH13	KR1RH5	KR1RH6	KR1R
	Full Guard	Green	KR1GH13	KR1GH5	KR1GH6	KR1G
	i di Guard	Universal [2]	KR1UH13	KR1UH5	KR1UH6	KR1U
9001KR1B		Other [3]	KR1∎H13	KR1∎H5	KR1∎H6	KR1∎
		Black	KR3BH13	KR3BH5	KR3BH6	KR3B
		Red	KR3RH13	KR3RH5	KR3RH6	KR3R
	No Guard	Green	KR3GH13	KR3GH5	KR3GH6	KR3G
	No Guard	Universal [2]	KR3UH13	KR3UH5	KR3UH6	KR3U
9001KR3B		Other [3]	KR3∎H13	KR3∎H5	KR3∎H6	KR3∎
		Black	KR2BH13	KR2BH5	KR2BH6	KR2B
		Red	KR2RH13	KR2RH5	KR2RH6	KR2R
	Extended Guard	Green	KR2GH13	KR2GH5	KR2GH6	KR2G
	Extended Guard	Universal [2]	KR2UH13	KR2UH5	KR2UH6	KR2U
9001KR2B		Other[3]	KR2∎H13	KR2∎H5	KR2∎H6	KR2∎
		Snap-In Plastic Mu	ushroom Button			
		Black	KR4BH13	KR4BH5	KR4BH6	KR4B
		Red	KR4RH13	KR4RH5	KR4RH6	KR4R
		Red [4]	KR4R05H13	KR4R05H5	KR4R05H6	KR4R05
	1-3/8 in. (35 mm)	Green	KR4GH13	KR4GH5	KR4GH6	KR4G
	Diameter	Other [3]	KR4∎H13	KR4∎H5	KR4∎H6	KR4∎
	Mushroom Button	Screw-On Mushro	om Button with Set Screw	V Security, Plastic Head		
9001KR4B		Black	KR24BH13	KR24BH5	KR24BH6	with No Contacts [1] KR1B KR1R KR1G KR1G KR1U KR3B KR3B KR3B KR3B KR3B KR3G KR3U KR3 KR3 KR2B KR2B KR2R KR2R KR2R KR2R KR2R KR2R
000111110		Red	KR24RH13	KR24RH5	KR24RH6	KR24R
		Green	KR24GH13	KR24GH5	KR24GH6	KR24G
		Other[3]	KR24∎H13	KR24∎H5	KR24∎H6	KR3G KR3U KR3U KR3 KR2B KR2G KR2Q KR2Q KR2U KR2 KR4B KR4R KR4R05 KR4G KR4A KR4R05 KR4G KR4G KR4G KR4G KR4G KR4B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR24B KR25B KR25B KR25B KR25B KR25G KR25G
1000		Screw-On Metal M	ushroom Button with Set	Screw Security		
	1-1/2 in. (40 mm)	Black	—	_		9001KR24BM
	Diameter Mushroom Button	Red	_	_	_	9001KR24RM
9001KR24BM		Green	—	—	—	9001KR24GM
		Snap-In Plastic Mu	ushroom Button			
		Black	KR5BH13	KR5BH5	KR5BH6	
		Red	KR5RH13	KR5RH5	KR5RH6	KR5R
		Red [4]	KR5R05H13 [4]	KR5R05H5 [4]	KR5R05H6 [4]	KR5R05 [4]
	2-1/4 in. (57 mm)	Green	KR5GH13	KR5GH5	KR5GH6	KR5G
	Diameter	Other[3]	KR5∎H13	KR5∎H5	KR5∎H6	KR5∎
	Mushroom Button	Screw-On Mushro	om Button with Set Screw	/ Security, Plastic Head		
9001KR5B		Black	KR25BH13	KR25BH5	KR25BH6	Contacts [1] KR1B KR1R KR1R KR1G KR1G KR1G KR3B KR3B KR3B KR3G KR3G KR2B KR2B KR2R KR2C KR2U KR2 KR2D KR2D KR4B KR4B KR4R KR4R KR4R KR4R KR4B KR4B KR24B KR24B KR24B KR24B KR24B KR24B KR24G KR24B KR24G KR24B KR24G KR24B KR24G KR24B KR24G KR24B KR24G KR24B KR24G KR24B KR24B KR24G KR24B KR25B KR
		Red	KR25RH13	KR25RH5	KR25RH6	KR25R
		Green	KR25GH13	KR25GH5	KR25GH6	KR25G
		Other[3]	KR25∎H13	KR25∎H5	KR25∎H6	KR25
		Screw-On Metal M	lushroom Button with Set	Screw Security		
No.	2-3/8 in. (60 mm)	Black	_	_	_	9001KR25BM
	Diameter	Red	_	_	_	9001KR25RM
	Mushroom Button	Green	_	_	_	9001KR25GM
9001KR25BM		1				

Table 19 120: Color Codes

Color	KR1, 2, 3 Place Color Code in Type Number	KR4, 5, 24, 25 Place Color Code in Type Number
Blue	L	L
Yellow	Y	Y
White	W	—
Orange	S	S
Gray	E	—

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-64. Contact blocks and legend plate not included unless otherwise noted.

When ordering, add prefix 9001 to the catalog number. The universal push button operators contain one each of the following color inserts: black, red, green, yellow, orange, blue and white. Choose color code from Table 19.122 Color Codes for Type K Operators, page 19-48. Knob has the words "Emergency Stop" in raised letters highlighted in white for readability. [1] [2] [3] [4]

Type K Heavy Duty Operators

Class 9001 / Refer to Catalog 9001CT1103



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Table 19,121: 30 mm Multifunction Operators

	Description [5]	Color	With 2 N.C. Contacts (1 KA3, 1 KA5) [6]	With 1 N.O. & 1 N.C. Contact (1 KA1) [6]	Without Contacts [6] [7]
n-Illuminated Push-Pull	Mushroom Operators				
	3 Position, Plastic Head 1-5/8 in. (40 mm), Screw-0n Momentary Pull Maintained Neutral Momentary Push [8]	Red Green Other <i>[</i> 9]	KR8RH25 KR8GH25 KR8▼H25		KR8R KR8G KR8▼
H	2 Position, Plastic Head 1-5/8 in. (40 mm), Screw-0n Maintained Pull Maintained Push <i>[10]</i>	Red [11] Green Other [9]		KR9RH13 KR9GH13 KR9▼H13	KR9R KR9G KR9▼
KR9R94H13 Set Screw Style	2 Position , Plastic Head 1-5/8 in. (40 mm), Screw-On Head with Set Screw Maintained Pull Maintained Push [10]	Red	_	KR9R94H13	KR9R94
	2 Position.	Black	—		9001KR9BM94
	Metal Head	Red	—		9001KR9RM94
9001KR9RM94	1-1/2 in. (40 mm) Diameter Maintained Pull Maintained Push	Green	-	_	9001KR9GM94
		Black	_		9001KR9BM95
	2 Position, Metal Head	Red	_		9001KR9RM95
9001KR9RM95	2-3/8 in (60 mm) Diameter Maintained Pull Maintained Push	Green	—	_	9001KR9GM95
	Description	Color	With 1 N.O. & 1 N.C. Contact (KA1)	With 2 N.O. & 2 N.C. Contacts (KA2)	Without Contacts
n-Illuminated Turn-to-R	elease Mushroom Operators				
9001KR16H2	2 Position, Plastic Head Turn-to-Release Trigger Action	Red	KR16H13	KR16H2	KR16



9001KR9P1 1.625 in. Diameter Knob For 1-3/8 in. or 2-1/4 in. Diameter Knob [5] Includes Type KN379 Legend Plate Marked Pull To Start, Push To Stop

Table 19.122: Color Codes for 30 mm Multifunction Operators V

Color	KR8, KR9			
Black [15]	В			
Red	R			
Green	G			
Blue	L			
Yellow	Y			
White	W			
Orange [15]	S			
Clear	С			
Amber	A			
Gray	—			

Screw-On Plastic Illuminated Push-Pull Mushroom Operators [6] [12] [9]							
Description [5]	Voltage	With Red Knob and 2 N.C. Contacts (1 KA3, 1 KA5)	With Other Color Knob and 2 N.C. Contacts (1 KA3, 1 KA5)	With Other Color Knob Without Contacts [7]			
3 Position Illuminated Momentary Pull Maintained Neutral Momentary Push[8]	110-120 V, 50-60 Hz Other—Transformer, LED, Flashing [13] Other—Full Voltage, Resistor, Neon [14]	KR8P1RH25 KR8P▲RH25 KR8P▲RH25	KR8P1▼H25 KR8P▲▼H25 KR8P▲▼H25	KR8P1▼ KR8P▲▼ KR8P▲▼			
Description [5]	Voltage	With Red <i>[11]</i> Knob & 1 N.O. & 1 N.C. Contact (KA1)	With Other Color Knob and 1 N.O. & 1 N.C. Contact (KA1)	With Other Color Knob Without Contacts			
2 Position Illuminated Maintained Pull Maintained Push	110–120 V, 50–60 Hz Other—Transformer, LED, Flashing <i>[13]</i> Other—Full Voltage, Resistor, Neon <i>[14]</i>	KR9P1RH13 KR9P▲RH13 KR9P▲RH13	KR9P1▼H13 KR9P▲▼H13 KR9P▲▼H13	KR9P1▼ KR9P▲▼ KR9P▲▼			

Table 19.123: Contact Sequences

9001 KR8RH1 or H13						
		Pull	Ctr	Push		
(KA1)	KA3	Х	0	0		
	KA2	0	0	Х		
		9001 KR8RH25				
K	KA3		0	0		
K	45	Х	Х	0		
NOTE: To select contact blocks, light modules, and accessories, see Type KA Contact Blocks, page 19-62.						

[5] For 1-3/8 in. or 2-1/4 in. Dia. Knob:

- a) Order Type -20 or -21 knob.
- b) Order 9001K54 adapter—allows Type -20 or -21 knob to fit on push pull operators. Voids UL and NEMA 6 rating. c) Can order assembled operator by adding color code to Type -20 or -21. Example: 9001KR9R would be 9001KR9R20 or 9001KR9R21.
- [6] When ordering, add prefix 9001 to the catalog number.
- These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.173 "H" Codes, page 19-65. Add the chosen "H" number to the end of the operator. [7]
- [8] For contact sequences, see Table 19.123 Contact Sequences, page 19-48
- [9] ▼ Choose one color from the Color Codes table here, and insert the color code in Type number. Example: KR9 with a yellow knob = KR9Y
- [10]
- For color codes, see Color Codes for 30 mm Multifunction Operators, page 19-48. To obtain a red knob with "Push Emergency Stop" printed on the red knob—substitute "R05" in place of "R" [11]
- [12] Add the voltage assembly code as chosen from Table 19.167 Standard Light Modules for Types K, SK, and KX Control Units, page 19-63. Example: KR8P with a 277 V 50-60 Hz voltage = KR8P8.
- [13] The knob must be the same color as the LED light module chosen, for example, for a green LED, use a green knob.
- On neon light modules, use clear knobs only [14]
- [15] These colors are not available on illuminated push-pull operators.

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PUSH BUTTONS AND OPERATOR INTERFACE



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Table 19.124: Illuminated Momentary Push Button Operators

Description		Voltage and Style Frequency		With Red Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [16]	With Green Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [16]	With Other Color Cap Without Contact Block [17] [18] [16]	
		110–120 V, 50–60 Hz	Transformer	K1L1RH13	K1L1GH13	K1L1▼	
		220–240 V, 50–60 Hz	Transformer	K1L7RH13	K1L7GH13	K1L7▼	
	Full Guard	24–28 Vac/Vdc	Full Voltage	K1L35RH13	K1L35GH13	K1L35▼	
	Illuminated Push Button		Transformer or Flashing	K1L∎RH13	K1L∎GH13	K1L∎▼	
	Clear Plastic Top		Full Voltage	K1L∎RH13	K1L∎GH13	K1L∎ <i>[18]</i>	
		For other voltages [19]	Resistor or Neon[20]	K1L∎RH13	K1L∎GH13	K1L∎▼	
9001K1L1			LED [21]	K1L∎RH13	K1L∎GH13	K1L∎▼	
We thread the set		110–120 V, 50–60 Hz	Transformer	K3L1RH13	K3L1GH13	K3L1▼	
		220–240 V, 50–60 Hz	Transformer	K3L7RH13	K3L7GH13	K3L7▼	
	Full Guard	24–28 Vac/Vdc	Full Voltage	K3L35RH13	K3L35GH13	K3L35▼	
	Illuminated		Transformer or Flashing	K3L∎RH13	K3L∎GH13	K3L∎▼	
	Push Button Metal Top		Full Voltage	K3L∎RH13	K3L∎GH13	K3L∎ [18]	
	wetar top	For other voltages [19]	Resistor or Neon [20]	K3L∎RH13	K3L∎GH13	K3L∎▼	
9001K3L1			LED [21]	K3L∎RH13	K3L∎GH13	K3L∎▼	
10-300		110–120 V, 50–60 Hz	Transformer	K2L1RH13	K2L1GH13	K2L1 ▼	
The second states	No Guard	220–240 V, 50–60 Hz	Transformer	K2L7RH13	K2L7GH13	K2L7▼	
118		24–28 Vac/Vdc	Full Voltage	K2L35RH13	K2L35GH13	K2L35▼	
	Illuminated	-	Transformer or Flashing	K2L∎RH13	K2L∎GH13	K2L∎ [18]	
	Push Button		Full Voltage	K2L∎RH13	K2L∎GH13	K2L∎▼	
		For other voltages [19]	Resistor or Neon [20]	K2L∎RH13	K2L∎GH13	K2L∎▼	
9001K2L1			LED [21]	K2L∎RH13	K2L∎GH13	K2L∎▼	
		110–120 V, 50–60 Hz	Transformer	K2L1R20H13	K2L1G20H13		
		220–240 V, 50–60 Hz	Transformer	K2L7R20H13	K2L7G20H13		
1 105	1-3/8 in. (35 mm) Illuminated	24–28 Vac/Vdc	Full Voltage	K2L35R20H13	K2L35G20H13		
	Mushroom,		Transformer or Flashing	K2L∎R20H13	K2L∎G20H13	Order K2L ■▼ Above [22]	
10 04 G	Screw-On Plastic Head	For other voltages [19]	Full Voltage	K2L∎R20H13	K2L∎G20H13	,	
	Flastic Head	Torother voltages [19]	Resistor or Neon [20]	K2L=R20H13	K2L∎G20H13		
9001K2LR20			LED [21]	K2L∎R20H13	K2L∎G20H13		
		110–120 V, 50–60 Hz	Transformer	K2L1R21H13	K2L1G21H13		
1	0.4/4 in (57 mm)	220–240 V, 50–60 Hz	Transformer	K2L7R21H13	K2L7G21H13		
5+1 × 1	2-1/4 in. (57 mm) Illuminated	24–28 Vac/Vdc	Full Voltage	K2L35R21H13	K2L35G21H13		
	Mushroom,		Transformer or Flashing	K2L∎R21H13	K2L∎G21H13	Order K2L∎▼ Above [22]	
	Screw-On Plastic Head	For other voltages [19]	Full Voltage	K2L∎R21H13	K2L∎G21H13		
	Flasue Licad	i or other voltages [19]	Resistor or Neon [20]	K2L∎R21H13	K2L∎G21H13		
9001K2LR21			LED [21]	K2L∎R21H13	K2L∎G21H13		

NOTE: To select contact blocks, light modules, and accessories, see Type KA Contact Blocks, page 19-62.

Table 19.125: Color Caps

0		Color Codes ▼					
Color	K1L, K2L, K3L	1-3/8 in. Mushroom	2-1/4 in. Mushroom				
Red	R	R20	R21				
Green	G	G20	G21				
Blue	L	L20	L21				
Yellow	Y	Y20	Y21				
White	W	W20	W21				
Clear	С	C20	C21				
Amber	А	A20	A21				
NOTE: UL Types 4, 13/NEMA 4, 13 For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-64. Contact blocks and legend plate not included unless otherwise noted.							

[16] When ordering, add prefix 9001 to the catalog number.

[17] These operators can be ordered complete with contact blocks. For maximum block usage, refer to bullets to the right of Table 19.173 "H" Codes, page 19-65. Add the "H" number to the end of the operator type number. Additional "H" numbers are available

[18] Add the color code as chosen from the color cap table. Example: K2L25 with a blue 1-3/8 in. mushroom button = K2L25L20.

Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-63. Example: K2L with 240 Vac/Vdc = K2L25. On neon light modules, use clear color caps only. [19]

[20]

The cap must be the same color as the LED light module chosen, e.g., for red LED, use red color cap. The only difference between a no guard (K2L_) operator and mushroom button operator is the color cap. [21]

[22]

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9001K 2-Position Selector Switches

Table 19.126: 2-Position Selector Switches

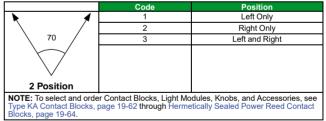
	Contact Block Required				1 — Contact Closed 0 — Contact Open		
Contact Block Position	Quantity and Type KA1 or KA2 or KA3	Mount on KA1 or KA2		Left Right	Left Right		
		KA1	KA3 #2	1 0	0 1		
Side 2 Side 1		#2 or	KA2 #2	0 1	1 0		
Operator Locating	KA1 KA3	KA1	KA3 #1	1 0	0 1		
Top View		#1 or	KA2 #1	0 1	1 0		
For cam, see Type K, KX, and SK Se	elector Switch Guide, page 19-53.			E	D		
				Cet No. (221			
Non-Illuminated Operators Manual Return <i>[24]</i> , Operator Only (without contact blocks)			Cat. No. [23]	Cat. No. <i>[</i> 23]		
Without Knob	antiour contact blocks			KS11	KS12		
	m Table 19.127 Selector Switch Asser	mbly Codes, page 19-50) /	251	KS11	KS12		
Key Operated with E10 Key (Code1,		, 10000, page 10 00/[KS11¥ KS11K♦	KS12¥ KS12K♦		
Operator with Contact Blocks and					101210		
With 1 KA1 on Side #2		KS11BH13					
With 1 KA1 on Side #1		KS11BH1					
With 1 KA1 on Side #1 and 1 KA1 or	n side #2	KS11BH2	_				
Spring Return from Left [24], Oper	ator Only (without contact blocks)						
Without Knob				KS25	—		
With Knob (select style and color from	m Table 19.127 Selector Switch Asser	nbly Codes, page 19-50) [[25]	KS25♦	—		
Key Operated with E10 Key (Code 2	only) [26]			KS25K2	_		
Spring Return from Right [24], Ope	erator Only (without contact blocks))					
Without Knob				—	KS34		
With Knob (select style and color from	m Table 19.127 Selector Switch Asser	nbly Codes, page 19-50) [[25]	—	KS34♦		
Key Operated with E10 Key (Code 1	only)			—	KS34K1		
· · · · · · · · · · · · · · · · · · ·							
Illuminated Operators				Cat. No. [23]	Cat. No. [23]		
Manual Return [24], Operator Only	(without contact blocks)						
Without Knob, 110-120V 50-60 Hz T				K11J1	K12J1		
With Standard Red Knob, 110-120V	50-60 Hz Transformer			K11J1R	K12J1R		
With Other Color Knob and other vol				K11J∎♦	K12J∎♦		
Spring Return from Left [24], Oper	ator Only (without contact blocks)						
Without Knob, 110-120V 50-60 Hz T	ransformer			K25J1	—		
With Standard Red Knob, 110-120V 50-60 Hz Transformer			K25J1R	—			
	With Other Color Knob and other voltage Light Module [27]. [25]			K25J∎♦	—		
With Other Color Knob and other vol	erator Only (without contact blocks)					
With Other Color Knob and other vol Spring Return from Right [24], Ope				[<u> </u>	K34J1		
With Other Color Knob and other vol	ransformer				K34J1 K34J1R		

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Table 19.127: Selector Switch Assembly Code and Knob Cat. No.

Color	Standa	rd Knob	Gloved Hand Knob		
	Knob Code	Cat. No. [23]	Knob Code	Cat. No. [23]	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Y	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	А	A8	FA	A24	
Clear	С	C8	FC	C24	

Table 19.128: Key Withdrawl Codes



[23] When ordering, add prefix 9001 to the catalog number.

- These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.173 "H" Codes, page 19-65 as needed for your application. Add the knob color code from Table 19.127 Selector Switch Assembly Codes, page 19-50 [24] [25]
- Add the key withdrawal code from Table 19.128 Key Withdrawl Codes, page 19-50 [26]
- [27] ■ Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-63. Example: K25J∎ with 208Vac = K25J3

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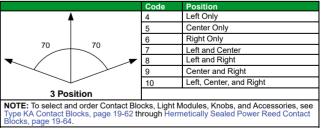
9001K 3-Position Selector Switches

Table 19.129: 3-Position Selector Switches											
	ct Block Required	liches				1 - Conta	ct Closed 0- 0	Contact Open			
Contact Block Position	Quantity and Type	Mount on Side	Left Right	Left Right							
		KA3 #2	100	100	0 0 1	100	100	1 0 0	1 0 0	0 1 0	1 1 0
Side 2 Side 1		#2 01 KA2 #2	0 1 1	0 0 1	0 1 0	0 1 0	0 0 1	0 1 1	0 1 1	100	001
Operator Locating		KA3 #1	0 0 1	100	0 0 1	100	0 1 0	0 0 1	1 0 1	0 0 1	0 1 1
Notch Top View		#1 or KA2 #1	1 1 0	0 0 1	0 1 0	0 1 0	0 0 1	1 0 0	0 1 0	0 1 0	100
For cam, see Type K, KX, and SK Se	lector Switch Guide, pag	ie 19-53.	В	С	D	E	F	G	J	L	М
Non-Illuminated Operator		, ,	Cat. No.	Cat. No.							
Manual Return, Operator		olocks) [29]	Juli Ho.	Juli Ho.	Juli Ho.	Jan Ho.			out no.	out no.	Jat. Ho.
Without Knob			KS42	KS43	KS44	KS45	KS46	KS47	KS49	KS401	KS402
With Knob +[30]			KS42♦	KS43♦	KS44♦	KS45♦	KS46♦	KS47♦	KS49♦	KS401♦	KS402♦
Key Operated with E10 Key	(Code 4 through 10) ▼	[31]	KS42K▼	KS43K▼	KS44K▼	KS45K▼	KS46K▼	KS47K▼	KS49K▼	KS401K▼	KS402K▼
Operator with Contact Blo	ocks and Standard blac	k knob [32]									
With 1 KA1 on Side #2 (H13	3)		KS42B- H13	KS43B- H13	KS44B- H13	KS45BH13	KS46BH13	KS47BH13	KS49BH13	KS401B- H13	KS402B- H13
With 1 KA1 on Side #1 (H1)			KS42BH1	KS43BH1	KS44BH1	KS45BH1	KS46BH1	KS47BH1	KS49BH1	KS401BH1	KS402BH1
With 1 KA1 on Side #1 and 1 KA1 on side #2 (H2)			KS42BH2	KS43BH2	KS44BH2	KS45BH2	KS46BH2	KS47BH2	KS49BH2	KS401BH2	KS402BH2
Spring Return from Left to	Center, Operator Only	y (without contac									
Without Knob			KS62	KS63	KS64	KS65	KS66	KS67	KS69	KS601	KS602
With Knob +[30]		KS62♦	KS63♦	KS64♦	KS65♦	KS66♦	KS67♦	KS69♦	KS601♦	KS602♦	
Key Operated with E10 Key (Code 5, 6 or 9 only) ▼[31]		KS62K▼	KS63K▼	KS64K▼	KS65K▼	KS66K▼	KS67K▼	KS69K▼	KS601K▼	KS602K▼	
Spring Return from Right	to Center, Operator Or	nly (without cont	act blocks) [29]							
Without Knob			KS72	KS73	KS74	KS75	KS76	KS77	KS79	KS701	KS702
With Knob +[30]			KS72♦	KS73♦	KS74♦	KS75♦	KS76♦	KS77♦	KS79♦	KS701♦	KS702♦
Key Operated with E10 Key			KS72K▼	KS73K▼	KS74K▼	KS75K▼	KS76K▼	KS77K▼	KS79K▼	KS701K▼	KS702K▼
Spring Return from Both S	Sides to Center, Operat	tor Only (withou									
Without Knob			KS52	KS53	KS54	KS55	KS56	KS57	KS59	KS501	KS502
With Knob •[30]	(O d a 4 5 a 7 a a b a) =	1041	KS52♦	KS53♦	KS54♦	KS55♦	KS56♦	KS57♦	KS59♦	KS501♦	KS502♦
Key Operated with E10 Key	(Code 4, 5 or 7 only) V	[31]	KS52K▼	KS53K▼	KS54K▼	KS55K▼	KS56K▼	KS57K▼	KS59K▼	KS501K▼	KS502K▼
Illuminated Operators			Cat. No.	Cat. No.							
Manual Return, Operator	Only (without contact b	olocks) [29]	out. No.	out. No.							
Without Knob, 110-120V 50		, , , , , , , , , , , , , , , , , , ,	K42J1	K43J1	K44J1	K45J1	K46J1	K47J1	K49J1	K401J1	K402J1
With Standard Red Knob, 1		sformer	K42J1R	K43J1R	K44J1R	K45J1R	K46J1R	K47J1R	K49J1R	K401J1R	K402J1R
With Other Color Knob and			K42J∎♦	K43J∎♦	K44J∎♦	K45J∎♦	K46J∎♦	K47J∎♦	K49J∎♦	K401J∎♦	K402J∎♦
Spring Return from Left to											
	Without Knob, 110-120V 50-60 Hz Transformer		K62J1	K63J1	K64J1	K65J1	K66J1	K67J1	K69J1	K601J1	K602J1
With Standard Red Knob, 1	With Standard Red Knob, 110-120V 50-60 Hz Transformer		K62J1R	K63J1R	K64J1R	K65J1R	K66J1R	K67J1R	K69J1R	K601J1R	K602J1R
With Other Color Knob and other voltage Light Module =[33] +[30]		K62J∎♦	K63J ∎ ♦	K64J ∎ ♦	K65J ∎ ♦	K66J ∎ ♦	K67J ∎ ♦	K69J ∎ ♦	K601J∎♦	K602J∎♦	
Spring Return from Right	to Center, Operator Or	nly (without cont	act blocks) [29]							
Without Knob, 110-120V 50-60 Hz Transformer		K72J1	K73J1	K74J1	K75J1	K76J1	K77J1	K79J1	K701J1	K702J1	
With Standard Red Knob, 110-120V 50-60 Hz Transformer		K72J1R	K73J1R	K74J1R	K75J1R	K76J1R	K77J1R	K79J1R	K701J1R	K702J1R	
With Other Color Knob and	other voltage Light Mod	ule ∎[33] ♦ [30]	K72J ∎ ♦	K73J ∎ ♦	K74J∎♦	K75J∎♦	K76J ∎ ♦	K77J ∎ ♦	K79J ∎ ♦	K701J ∎ ♦	K702J∎♦
Spring Return from Both		tor Only (without	t contact blo	cks) [29]							
Without Knob, 110-120V 50			K52J1	K53J1	K54J1	K55J1	K56J1	K57J1	K59J1	K501J1	K502J1
With Standard Red Knob, 1			K52J1R	K53J1R	K54J1R	K55J1R	K56J1R	K57J1R	K59J1R	K501J1R	K502J1R
With Other Color Knob and	other voltage Light Mod	ule = [33] * [30]	K52J ∎ ♦	K53J ∎ ♦	K54J ∎ ♦	K55J ∎ ♦	K56J∎♦	K57J ∎ ♦	K59J ∎ ♦	K501J∎♦	K502J∎♦

Table 19.130: Selector Switch Assembly Code and Knob Cat. No. +

	Standard K	nob	Gloved Hand Knob		
Color	[30] Knob Code	Cat. No. [28]	[30] Knob Code	Cat. No. [28]	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Y	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	A	A8	FA	A24	
Clear	С	C8	FC	C24	

Table 19.131: Key Withdrawal Codes [34]



[28] When ordering, add prefix 9001 to the catalog number.

[29] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.173 "H" Codes, page 19-65 as needed for your application.

[30] • Add the knob color code from Table 19.130 Selector Switch Assembly Code, page 19-51. For LED, knob color must match LED.

[31] V Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6.

[32] For other color knobs replace the B with knob color code from the Selector Switch Assembly Code table.

[33] Add the voltage assembly code as chosen from page 19–86.

[34] Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6.

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9001K 4-Position Selector Switches

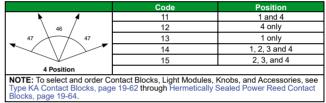
Table 19.132:	4-Position	Selector	Switches

Contact Block Required								
Contact Block Position	Quanti KA1 or	ty an KA2	d Type or KA3			Side or KA3	1—Contact Closed 0—Contact Open	
	KA1			KA1 #2		KA3 #2		
Side 2 Side 1	00	or		#2	or	KA2 #2	0 0 1 0	
Operator Locating	KA1			KA1		KA3 #1	0 0 0 1	
Top View		or KA2	KA1 #1	or	KA2 #1	0 1 0 0		
For cam, see Type K, KX, and SK Selector SV	For cam, see Type K, KX, and SK Selector Switch Guide, page 19-53.							
Non-Illuminated Operators							Cat. No. <i>[35]</i>	
Manual Return [36], Operator Only (without co	ontact blocks)							
Without Knob							KS88	
With Knob+[37]							KS88♦	
Key Operated with E10 Key (Codes 11, 12, 13)	3, 14, 15)						KS88K[38]	
Illuminated Operators	Illuminated Operators Cat. No. [35]							
Manual Return [36], Operator Only (without ca	ontact blocks)							
	Without Knob, 110-120V 50-60 Hz Transformer K88J1							
With Standard Red Knob, 110-120V 50-60 Hz	Vith Standard Red Knob, 110-120V 50-60 Hz Transformer K88J1R							
With Other Color Knob and other voltage Ligh	nt Module ∎[39] ♦[37][40]					K88J ∎ ♦	

Table 19.133: Selector Switch Assembly Code and Knob Cat. No.

<u>.</u>	Standar	d Knob	Gloved Hand Knob		
Color	Knob Code	Cat. No.	Knob Code	Cat. No.	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Y	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	А	A8	FA	A24	
Clear	С	C8	FC	C24	

Table 19.134: Key Withdrawl Codes



Potentiometers with Dial Plate

Table 19.135: Potentiometers with Dial Plate (not UL listed)-Maximum Voltage 300

Vac Po

Power	Description	Ratings	Туре
2.14/	Operator Only, for Single Potentiometer	NEMA 4, 13	K20
2 W	Operator with Single Potentiometer	INEIVIA 4, 13	K21

Table 19.136: Potentiometer Suffixes

Single Potentiome	ter		
Suffix [41]	Resistance	Suffix [41]	Resistance
01	50 Ω	07	5 kΩ
02	100 Ω	08	10 kΩ
04	500 Ω	09	25 kΩ
05	1 kΩ	13	500 kΩ
39	2 kΩ	37	750 kΩ
06	2.5 kΩ	14	1 MΩ
Tandem Potentiom	neter		
Suffix [41]		Resistance	
Sumr[41]		Front	Rear
82		1 kW	1 kW
NOTE: Any potentic	ometer with a shaft 7/8" long an	d 1/4" diameter may be used	with these operators.

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[35] When ordering, add prefix 9001 to the catalog number.

[36] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.173 "H" Codes, page 19-65 as needed for your application.

[37] + Add the knob color code from the Selector Switch Assembly Code table. For LED, knob color must match LED.

Add the key withdrawal code from the Key Withdrawl Codes table. [38]

[39] Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6.

Add the knob color code from the Selector Switch Assembly Code table. For LED, knob color must match LED. [40]

[41] For the complete part number, add the suffix from Table 19.136 Potentiometer Suffixes, page 19-52 to the catalog number. Example: 9001K2105.



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Selection

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Step No. 2

Shown below is a simplified method of selecting a selector switch to meet almost any combination of contact sequences. Step No. 1 Determine the contact sequence(s) required. Set up a target table like the one shown for the example below. Contact Sequence 0—contact open 1— —contact closed 4 Я 4 0 0 B 0 1 0 C Ω Ω Step No. 2 Look for a cam type common to all sequences in: Table 19.137 2 Position Selector Switch, page 19-53, Table 19.138 3 Position Selector Switch, page 19-53, or Table 19.139 4 Position Selector Switch, page 19-53. For the example above, Table 19.138 3 Position Selector Switch, page 19-53 would be used. For the contact sequences A (1 0 0), B (0 1 0) and C (0 0 1) of the example above, cam types F and L are common to all three sequences three sequences

Step No. 3 Next, use the cam type common to all the sequences (if several cam types are common, choose one) to find the operator type number. Go to the proper reference topic as indicated in the table below:

Number of Positions	Push Button Line	Reference topics
2	Type K, Type SK	Type K, page 19-50 Type SK, page 19-58 "H" Numbers, page 19-65.
3	Type K, Type SK	Type K, page 19-51 Type SK, page 19-59 "H" Numbers, page 19-65.
4	Type K, Type SK	Type K, page 19-52 Type SK, page 19-60.

If for the example above a manual return operator with a standard black knob is required and: The F cam type is chosen, the operator type number is:

- Type K—Class 9001 Type KS46B, page 19-51
- Type SK—Class 9001 Type SKS46B, page 19-59
- The L cam type is chosen, the operator type number is:
- Type K—Class 9001 Type KS401B, page 19-51
- Type SK—Class 9001 Type SKS401B, page 19-59

Step No. 4:

Determine the contact blocks required by using the same table in Step No 2

- If, for the example above, the F cam type is chosen:
- Use a 9001KA3 mounted on side no. 2 for sequence A (1 0 0).
- Use a 9001KA3 mounted on side no. 1 for sequence B (0 1 0).
- Use a 9001KA2 mounted on side no. 1 or 2 for sequence C (0 0 1). ٠

If, for the example above, the L cam type is chosen:

- Use a 9001KA2 mounted on side no. 2 for sequence A (1 0 0). ٠ Use a 9001KA2 mounted on side no. 1 or a 9001KA3 mounted on
- side no. 2 for sequence B (0 1 0).

• Use a 9001KA3 mounted on side no. 1 for sequence C (0 0 1). One Type KA1 double circuit block can be used in place of one Type KA2 single circuit block plus one Type KA3 single circuit block mounted on the same side.

Type K, KX, and SK Selector Switch Guide

Table 19.137: 2 Position Selector Switch

If you require contact sequence—			Use Contact	Mount on	
×	1	Use Cam Type	Block Type	side no. [42]	
4	0	E	KA3	1 or 2	
-	0	D	KA2	1 or 2	
0	4	ш	KA2	1 or 2	
0	I	D	KA3	1 or 2	

Table 19.138: 3 Position Selector Switch

l con	If you require contact sequence—			Use Cam Type			Use Contact	Mount on											
		1				USE	Gam	туре				Block Type	side no. [42]						
								G			Μ	KA2	1						
										L		KA2	2						
1	0	0		С		E						KA3	1						
			В	С		E	F	G	J			KA3	2						
			В					G	J			KA5 [43]	2						
					D	Е			J	L		KA2	1						
0	1	0			D	Е						KA2	2						
0	1	0					F					KA3	1						
										L		KA3	2						
				С			F					KA2	1 or 2						
			В		D			G		L		KA3	1						
0	0	1			D							KA3	2						
									В									KA5[43]	1
											Μ	KA2	2						
			В									KA2	1						
1	1	0		С			F					KA5 [43]	1 or 2						
											Μ	KA3	2						
			В					G	J			KA2	2						
								G				KA5[43]	1						
0	1	1								L		KA5 [43]	2						
											М	KA3	1						
			1						J			KA3	1						
1	0	1			D	Е			J	L		KA5[43]	1						
	-			1	D	E					Ì	KA5[43]	2						

Table 19.139: 4 Position Selector Switch

	If you i contact se	equire quence—			Use Contact	Mount on	
×	×	1	1	Use Cam Type	Block Type	side no. [42]	
1	0	0	0	Н	(A) KA3	2	
0	1	0	0	Н	(B) KA2	1	
0	0	1	0	Н	(C) KA2	2	
0	0	0	1	Н	(D) KA3	1	
1	0	0	1	Н	A & D Wired in Parallel		
1	1	0	0	Н	A & B V	Vired in Parallel	
0	1	1	0	Н	B&CV	Vired in Parallel	
0	0	1	1	Н	C&DV	Vired in Parallel	
1	1	1	0	Н	A, B & C	Wired in Parallel	
0	1	1	1	Н	B, C & D	Wired in Parallel	
1	0	1	0	Н	A & C Wired in Parallel		
0	1	0	1	H B & D Wired in Paral		Vired in Parallel	
1	1	0	1	Н			
1	0	1	1	Н	H KA5 [43]		

NOTE: For Outline Dimensions see Catalog 9001CT1103

NOTE: When ordering, add prefix 9001 to the catalog number.



When ordering, please specify

- Quantity
- Class Number
- Type or Catalog Number

For "H" Numbers, see Type K, SK, and KX Contact Block "H" Numbers, page 19-65

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[42] See Type K, SK, and KX Contact Block "H" Numbers, page 19-65

[43] Type KA5 must be the last block on either side. If more than one KA5 is required on either side—contact your local Square D sales office.



Type K Heavy Duty Pilot Lights

When ordering, add prefix 9001 to the catalog number.

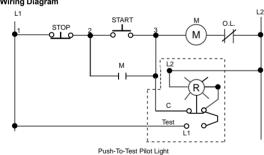
Table 19.140: Pilot Lights-UL Types 4, 13/NEMA 4 & 13[44][45]

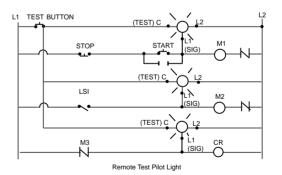
Description	Voltage	Style	With Red Fresnel Color Cap [46]	With Green Fresnel Color Cap [46]	With Other Color Cap [46] [47]	Without Color Cap [46]
	110–120 V, 50–60 Hz 220–240 V, 50–60 Hz 24–28 Vac/Vdc	Transformer Transformer Full Voltage	KP1R31 KP7R31 KP35R31	KP1G31 KP7G31 KP35G31	KP1∎ KP7∎ KP35∎	KP1 KP7 KP35
Standard Pilot Light (Plastic Fresnel Color Cap Shown)	For other voltages see Standard and Shallow Depth Light Modules, page 19-63.	Transformer, Flashing or LED [48] Full Voltage, Neon or Resistor [49]	KP▲R31 KP▲R31	KP▲G31 KP▲G31	К₽▲∎ К₽▲∎	КР▲ КР▲
Push-To-Test Pilot Light (Glass Color Cap Shown)	110–120 V, 50–60 Hz 220–240 V, 50–60 Hz 24–28 Vac/Vdc	Transformer Transformer Full Voltage	KT1R31 KT7R31 KT35R31	KT1G31 KT7G31 KT35G31	KT1∎ KT7∎ KT35∎	KT1 KT7 KT35
	For other voltages see Standard and Shallow Depth Light Modules, page 19-63.	Transformer, Flashing or LED [48] Full Voltage, Neon or Resistor [49]	KT▲R31 KT▲R31	KT▲G31 KT▲G31	KT▲■ KT▲	KT▲ KT▲
	120 Vac Only 24–28 Vac Only for other voltages	Resistor [50] Full Voltage [50]	KTR38R31 KTR35R31	KTR38G31 KTR35G31	KTR38∎ KTR35∎	KTR38 KTR35
Remote Test Pilot Light (Glass Color Cap Shown)	See Standard and Shallow Depth Light Modules, page 19-63.[50]	Full Voltage or Resistor [50]	KTR▲R31	KTR▲G31	KTR ▲∎	KTR▲

Table 19.141: Color Caps

Color	Plastic Fresnel	Plastic Domed	Glass
Amber	A31	A9	A6
Blue	L31	L9	L6
Clear	C31	C9	C6
Green	G31	G9	G6
Red	R31	R9	R6
White	W31	W9	W6
Yellow	Y31	Y9	Y6

Typical Wiring Diagram





For Contact Blocks, see Type KA Contact Blocks, page 19-62 For Light Modules, see Standard and Shallow Depth Light Modules, page 19-63

[44] For use in hazardous locations, see Square D Offering According to Class, Division, and Group, page 19-64

- [45] Legend plates not included.[46] When ordering, add prefix 9001 to the catalog number.
- [47] Add the color code as chosen from Table 19.141 Color Caps, page 19-54. EXAMPLE: KP1 with a blue fresnel cap = KP1L31
- [48] The cap must be the same color as the LED light module chosen, e.g., for green LED, use green color cap.
- [49] On neon light modules, use clear color caps only.
- [50] On remote test pilot lights use only full voltage or resistor voltage assembly codes. Do not choose LED (exception these LED codes are allowed: 38LG, 38LL, 38LR, 38LW, 38LY), neon or transformer codes. For AC use only.



30 mm Momentary Push Button Operators, UL Types 4, 4X, 13/ NEMA 4, 4X, 13

Table 19.142: Non-Illuminated Momentary Push Button Operators[51]

Description	Color	Operator with 1 N.O. and 1 N.C. Contact (KA1)	Operator with 1 N.O. Contact (KA2)	Operator with 1 N.C. Contact (KA3)	Operator Only No Contacts [52]
-	Black	SKR1BH13	SKR1BH5	SKR1BH6	SKR1B
	Red	SKR1RH13	SKR1RH5	SKR1RH6	SKR1R
	Green	SKR1GH13	SKR1GH5	SKR1GH6	SKR1G
	Universal [53]	SKR1UH13	SKR1UH5	SKR1UH6	SKR1U
9001SKR1B Full Guard	Other [54]	SKR1∎H13	SKR1∎H5	SKR1∎H6	SKR1∎
Full Guard	Black	SKR3BH13	SKR3BH5	SKR3BH6	SKR3B
	Red	SKR3RH13	SKR3RH5	SKR3RH6	SKR3R
	Green	SKR3GH13	SKR3GH5	SKR3GH6	SKR3G
	Universal [53]	SKR3UH13	SKR3UH5	SKR3UH6	SKR3U
	011101001[00]	61113	011130113	611136116	011100
9001SKR3B No Guard	Other [54]	SKR3∎H13	SKR3∎H5	SKR3∎H6	SKR3∎
	Black	SKR2BH13	SKR2BH5	SKR2BH6	SKR2B
	Red	SKR2RH13	SKR2RH5	SKR2RH6	SKR2R
	Green	SKR2GH13	SKR2GH5	SKR2GH6	SKR2G
	Universal [53]	SKR2UH13	SKR2UH5	SKR2UH6	SKR2U
9001SKR2B Extended Guard	Other [54]	SKR2∎	SKR2∎H5	SKR2∎H6	SKR2∎
	Snap-In Mushroom Butt	on		•	
	Black	SKR4BH13	SKR4BH5	SKR4BH6	SKR4B
	Red	SKR4RH13	SKR4RH5	SKR4RH6	SKR4R
COLUMN AND A	Red [55]	SKR4R05H13	SKR4R05H5	SKR4R05H6	SKR4R05
	Green	SKR4GH13	SKR4GH5	SKR4GH6	SKR4G
	Other [56]	SKR4▲H13	SKR4 ▲ H5	SKR4 ▲ H6	SKR4▲
	Screw-On Mushroom Bu	utton with Set Screw Security			
9001SKR4B	Black	SKR24BH13	SKR24BH5	SKR24BH6	SKR24B
1-3/8 in. (35 mm)	Red	SKR24RH13	SKR24RH5	SKR24RH6	SKR24R
Mushroom Button	Green	SKR24GH13	SKR24GH5	SKR24GH6	SKR24G
	Other [56]	SKR24▲H13	SKR24 A H5	SKR24▲H6	SKR24▲
	Snap-In Mushroom Butt	on, Plastic Head		•	*
	Black	SKR5BH13	SKR5BH5	SKR5BH6	SKR5B
	Red	SKR5RH13	SKR5RH5	SKR5RH6	SKR5R
	Red [55]	SKR5R05H13	SKR5R05H5	SKR5R05H6	SKR5R05
	Green	SKR5GH13	SKR5GH5	SKR5GH6	SKR5G
	Other [56]	SKR5 AH13	SKR5 AH5	SKR5▲H6	SKR5
		Itton with Set Screw Security,			
	Black	SKR25BH13	SKR25BH5	SKR25BH6	SKR25B
9001SKR5	Red	SKR25RH13	SKR25RH5	SKR25RH6	SKR25R
2-1/4 in. (57 mm) Mushroom Button	Green	SKR25GH13	SKR25GH5	SKR25GH6	SKR25G
WUSHFOOTH BULLON	Other [56]	SKR25 AH13	SKR25 A H5	SKR25 AH6	SKR25

Table 19.143: Color Codes

Color	■ SKR1, 2, 3 Place Color Code in Type Number	▲ SKR4, 5, 24, 25 Place Color Code in Type Number
Blue	L	L
Yellow	Y	Y
White	W	—
Orange	S	S
Gray	E	_

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-62 through Hermetically Sealed Power Reed Contact Blocks, page 19-64.

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-64. Contact blocks and legend plate not included unless otherwise noted.

[51] When ordering, add prefix 9001 to the catalog number.

[53] The universal push button operators include one each of the following color inserts: black, red, green, yellow, orange, blue and white.

[54] See Table 19.143 Color Codes , page 19-55.

[55] Knob has the words "Emergency Stop" in raised letters highlighted in white for readability.

[56] A See Table 19.143 Color Codes , page 19-55.

¹⁹ PUSH BUTTONS AND OPERATOR

^[52] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.173 "H" Codes, page 19-65. Add the "H" number to the end of the operator type number.

Type SK Corrosion Resistant Multifunction



Class 9001 / Refer to Catalog 9001CT1103

30 mm Multifunction Operators UL Types 4, 4X, 13/NEMA 4, 4X, 13

Operators

Table 19.144: Non-Illuminated Push-Pull Screw-on Mushroom Operators, Plastic Head [57]

	Description	Color	With 2 N.C. Contacts (1 KA3, 1 KA5)	With 1 N.O. / 1 N.C. Contact (1 KA1)	Without Contacts [58]									
	3 Position													
PULL PUSH TO START TO STOP	Marra and and Daill	Red	SKR8RH25	—	SKR8R									
City	Momentary Pull- Maintained Neutral- Momentary Push <i>[59]</i>	Green	SKR8GH25	—	SKR8G									
	womentary Push [35]	Other [60]	SKR8▲H25	_	SKR8▲									
	2 Position[61]	osition[61]												
		Red	—	SKR9RH13	SKR9R									
9001SKR9R Non-Illuminated	Maintained Pull-	Green	—	SKR9GH13	SKR9G									
1-5/8 in. Diameter Knob Includes Type KN179WP Legend Plate Marked Pull To Start Push To Stop	Maintained Push	Other [60]	_	SKR9▲H13	SKR9▲									

Table 19.145: Non-Illuminated Turn-to-Release Mushroom Operators [57]

	Description	Color	With 1 N.O. Contact (KA1)	With 2 N.O. / 2 N.C. Contacts (2 KA1)	Without Contacts
90015KR16H2	2 Position, Plastic Head Turn-to-Release Trigger Action	Red	SKR16H13	SKR16H2	SKR16

Table 19.146: Screw-On Plastic Illuminated Push-Pull Mushroom Operators[57]

Illuminated	Description	Voltage	With Red Knob and 2 N.C. Contacts (1 KA3, 1 KA5) [62]	With Other Color Knob and 2 N.C. Contacts [60] [62]	With Other Color Knob Without Contacts [58] [60] [62]
	3 Position				
1		110–120 V, 50–60 Hz	SKR8P1RH25	SKR8P1▲H25	SKR8P1▲
A DIAN OF A DIAN	Momentary Pull- Maintained Neutral-	Other—Transformer, LED, Flashing [64]	SKR8P+RH25	SKR8P♦▲H25	SKR8P ♦ ▲
	Momentary Push [63]	Other—Full Voltage, Resistor, Neon [59]	SKR8P+RH25	SKR8P♦▲H25	SKR8P♦▲
	Description	Voltage	With Red <i>[61]</i> Knob and 1 N.O. & 1 N.C. Contact (KA1)	With Other Color Knob and 1 N.O. & 1 N.C. Contact (KA1) [60]	With Other Color Knob Without Contacts [60]
9001SKR9P1	2 Position				
Illuminated 1-5/8 in. Diameter Knob		110–120 V, 50–60 Hz	SKR9P1RH13	SKR9P1▲H13	SKR9P1▲
Includes Type KN179WP Legend Plate Marked	Maintained Pull- Maintained Push	Other—Transformer, L.E.D., Flashing [64]	SKR9P+RH13	SKR9P♦▲H13	SKR9P ♦ ▲
Pull to Start Push To Stop	maintaineu Push	Other—Full Voltage, Resistor, Neon [59]	SKR9P+RH13	SKR9P♦▲H13	SKR9P ♦ ▲

Table 19.147: Color Codes

Color	SKR11, SKR12	SKR8, SKR9
Black [65]	В	В
Red	R	R
Green	G	G
Blue	L	L
Yellow	Y	Y
White	W	W
Orange [65]	S	S
Clear	_	С
Amber	—	A
Gray	E	_

Table 19 148: Positions for 9001SKR8RH1 or H13

Table 19,149: Positions for 9001SKR8H25

Table 13.140. F03							011101120	
		9	001SKR8RH1 or H1	3			9001SKR8H25	
		PULL	CTR	PUSH		PULL	CTR	PUSH
(KA1)	KA3	Х	0	0	KA3	Х	0	0
(KAT)	KA2	0	0	Х	KA5	Х	Х	0
					KA2	0	0	X

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-62 through Hermetically Sealed Power Reed Contact Blocks, page 19-64.

- [57] When ordering, add prefix 9001 to the catalog number
- [58] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.173 "H" Codes, page 19-65. Add the chosen "H" number to the end of the operator. [59] On neon light modules, use clear knobs only.

- [60] ▲ See Table 19.147 Color Codes, page 19-56 and insert the color code in the Type number. Example: SKR9() with a yellow knob = SKR9Y [61]
- To obtain a red knob with "Push Emergency Stop" printed on the red knob-substitute "R05" in place of "R" • Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-63. Example: SKR8P• with 277 V 50–60 Hz = SKR8P8 [62]
- For positions, refer to Table 19.148 Positions for 9001SKR8RH1 or H13, page 19-56 and Table 19.149 Positions for 9001SKR8H25, page 19-56. [63]
- The knob must be the same color as the LED light module chosen, for example, for a green LED, use a green knob. [64]
- [65] These colors are not available on illuminated push-pull operators.

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PUSH BUTTONS AN INTERFA

DOPERATOR



Type SK Corrosion Resistant Illuminated Operators

Table 19.150: Illuminated Push Button Operators

Description		Voltage and Frequency	Style	With Red Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [66]	With Green Color Cap and 1 N.O.and 1 N.C. Contact (KA1) [66]	With Other Color Cap Without Contact Blocks [67] [66]
		110–120 V, 50–60 Hz	Transformer	SK1L1RH13	SK1L1GH13	SK1L1
		220–240 V, 50–60 Hz	Transformer	SK1L7RH13	SK1L7GH13	SK1L7
	Full Guard	24–28 Vac/Vdc	Full Voltage	SK1L35RH13	SK1L35GH13	SK1L35
	Illuminated		Transformer, Flashing	SK1L∎RH13	SK1L∎GH13	SK1L
	Push Button	For other voltages	Full Voltage	SK1L∎RH13	SK1L∎GH13	SK1L
		See Table [68]	Resistor, Neon [69]	SK1L∎RH13	SK1L∎GH13	SK1L
9001SK1L1			LED [70]	SK1L∎RH13	SK1L∎GH13	SK1L ■ [71]
Jean		110–120 V, 50–60 Hz	Transformer	SK2L1RH13	SK2L1GH13	SK2L1
1 - Const Mar		220-240 V, 50-60 Hz	Transformer	SK2L7RH13	SK2L7GH13	SK2L7
(1) is		24–28 Vac/Vdc	Full Voltage	SK2L35RH13	SK2L35GH13	SK2L35
	No Guard Illuminated		Transformer, Flashing	SK2L∎RH13	SK2L∎GH13	SK2L
	Push Button	F	Full Voltage	SK2L∎RH13	SK2L∎GH13	SK2L
COLAN		For other voltages See Table [68]	Resistor, Neon [69]	SK2L∎RH13	SK2L∎GH13	SK2L
9001SK2L1			LED[70]	SK2L∎RH13	SK2L∎GH13	SK2L ■ [71]
0		110–120 V, 50–60 Hz	Transformer	SK2L1R20H13	SK2L1G20H13	
and the second second		220–240 V, 50–60 Hz	Transformer	SK2L7R20H13	SK2L7G20H13	
	1-3/8 in.	24–28 Vac/Vdc	Full Voltage	SK2L35R20H13	SK2L35G20H13	
	(35 mm) Illuminated		Transformer, Flashing	SK2L=R20H13	SK2L=G20H13	Order SK2L∎
	Mushroom,		Full Voltage	SK2L=R20H13	SK2L∎G20H13	[71][72]
1.12 1.14	Screw-On Plastic Head	For other voltages See Table [68]	Resistor, Neon [69]	SK2L=R20H13	SK2L=G20H13	
9001SK2L1R20	T lastic field		LED [70]	SK2L=R20H13	SK2L∎G20H13	
THE THE		110–120 V, 50–60 Hz	Transformer	SK2L1R21H13	SK2L1G21H13	
	0.4/4	220-240 V, 50-60 Hz	Transformer	SK2L7R21H13	SK2L7G21H13	
	2-1/4 in. (57 mm)	24–28 Vac/Vdc	Full Voltage	SK2L35R21H13	SK2L35G21H13	
	Illuminated		Transformer, Flashing	SK2L=R21H13	SK2L=G21H13	Order SK2L∎
	Mushroom, Screw-On	For other voltages	Full Voltage	SK2L=R21H13	SK2L=G21H13	[71][72]
	Plastic Head	See Table [68]	Resistor, Neon [69]	SK2L=R21H13	SK2L=G21H13	
9001SK2L1R21			LED [70]	SK2L∎R21H13	SK2L∎G21H13	

Table 19.151: Color Caps

		Color Codes							
Color	SK1L/SK2L	1-3/8 in. (35 mm) Mushroom	2-1/4 in. (57 mm) Mushroom						
Red	R	R20	R21						
Green	G	G20	G21						
Blue	L	L20	L21						
Yellow	Y	Y20	Y21						
White	W	W20	W21						
Clear	С	C20	C21						
Amber	А	A20	A21						
NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-62 through Hermetically Sealed Power Reed Contact Blocks, page 19-64.									

up, pag 64. Contact blocks and legend plate not included unless otherwise noted.

[66] When ordering, add prefix 9001 to the catalog number.

[67] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.173 "H" Codes, page 19-65. Add the "H" number to the end of the operator type number.

[68] • Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-63. EXAMPLE: SK2L_ with 240 Vac/Vdc = SK2L25.

[69]

On neon light modules, use clear color caps only. Add the color code as chosen from the color cap table below. **EXAMPLE: SK2L25 with a blue 1-3/8 in. mushroom button = SK2L25L20**. [70]

The cap must be the same color as the LED light module chosen, e.g., for green LED, use green color cap. The only difference between a no guard (SK2L) operator and mushroom button operator is the color cap. [71]

[72]



Class 9001 / Refer to Catalog 9001CT1103

9001SK 2-Position Selector Switches

|--|

	Contact I	Block Required						act Closed tact Open	
Contact Block Position	ntact Block Position Quantity and Type KA1 or KA2 or KA3			lount on I or KA2		Left	Right	Left	Right
	010	KA3	KA1		KA3 #2	1	0	0	1
Side 2	KA10 0	or KA200	#2	or	KA2 #2	0	1	1	0
		KA3			KA3 #1	1	0	0	1
Operator Locating Notch	KA10 0	or KA2 0	KA1 #1	or	KA2 #1	0	1	1	0
Top View For Cam, see Type K, KX, and SK Select	or Switch Cuido, po	no 10 52							D
For Carri, see Type K, KX, and SK Select	or Switch Guide, pa	ge 19-55					E		J
Non-Illuminated Operators						Тур	e [73]	Тур	e [73]
Manual Return[74], Operator Only (with	hout contact blocks	s)							
Without Knob						SKS11		SKS12	
With Knob [75]						SKS11♦		SKS12♦	
Operator with Contact Blocks and Star	ndard black knob								
With 1 KA1 on Side #2						SKS11BH13		—	
With 1 KA1 on Side #1						SKS11BH1		—	
With 1 KA1 on Side #1 and 1 KA1 on side Spring Return from Left [74], Operator		aat blocks)				SKS11BH2			
Without Knob	Only (without com	act DIOCKS				SKS25		1_	
With Knob [75]						SKS25			
Spring Return from Right [74], Operato	or Only (without co	ntact blocks)				3K323		1-	
Without Knob	in only (manout co					1_		SKS34	
With Knob [75]						-		SKS34	
						_			
Illuminated Operators						Тур	e [73]	Тур	ə [73]
Manual Return [74], Operator Only (wit		S)				Lawrence		Lawren	
Without Knob, 110-120V 50-60 Hz Transf						SK11J1		SK12J1	
With Standard Red Knob, 110-120V 50-6		21				SK11J1R		SK12J1R	
With other Color Knob [75] and other Volta				_		SK11J∎+		SK12J∎♦	
Spring Return from Left [74], Operator Without Knob, 110-120V 50-60 Hz Transf		act DIOCKS)				01/05.14		T	
						SK25J1		-	
With Standard Red Knob, 110-120V 50-6 With other Color Knob [75] and other Volta		21				SK25J1R			
Spring Return from Right [74], Operato	• • •					SK25J∎♦		1-	
Without Knob, 110-120V 50-60 Hz Transf		nact blocks)				1_		SK34J1	
With Standard Red Knob, 110-120V 50-60 Hz Transi								SK34J1 SK34J1R	
With other Color Knob [75]and other Volta		51						SK34JTR SK34J∎♦	
	age Eight Moudle [/t	4				—		31343∎♥	





Table 19.153: Selector Switch Assembly Code and Knob Cat. No.

Color	Standard	l Knob	Gloved Hand Knob					
Color	Knob Code	Cat. No. [73]	Knob Code	Cat. No. [73]				
Black	В	B11	FB	B25				
Red	R	R8	FR	R24				
Green	G	G8	FG	G24				
Yellow	Y	Y8	FY	Y24				
Blue	L	L8	FL	L24				
White	W	W8	FW	W24				
Amber	A	A8	FA	A24				
Clear	С	C8	FC	C24				

Contact Blocks: Contact Blocks, page 19-62, Hermetically Sealed Logic Reed Contact Blocks, page 19-64, Hermetically Sealed Power Reed Contact Blocks, page 19-64 Light Modules: Standard Light Modules, page 19-63

[73]

- When ordering, add prefix 9001 to the catalog number. These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.173 "H" Codes, page 19-65. Add the chosen "H" number to the end of the operator. Add the knob color code chosen from Table 19.153 Selector Switch Assembly Code and Knob Cat. No., page 19-58. For LED, knob color must match LED. [74]
- [75]
- [76] Add the voltage assembly code as chosen from Standard Light Modules, page 19-63. Example: K25J with 208Vac = K25J3

9001SK Corrosion Resistant Selector

0 0 0 1

1 0 1 1

1 0

0 0

М

Туре

SKS402

SKS402+

SKS402B-H13

SKS402BH1

SKS402BH2

SKS60

SKS602♦

SKS702

SKS702+

SKS502

1

1

Schneider

G Electri	İC	_	Switc Class 9		Ro	for to	Cat	alo	a 9	001	ст	110	2																	
www.se.com/us		C	1055 3	0017	Ne		Ca	aiu	•					> 09	siti	on	Se	ele	cto	r S	wit	ch	es							
Table 19.154: 3-Pc	neitior	15	alacto	r Swi	itch	105							• •	•		•						•	••							
	act Bloc			1.01		103										1 -	- Co	ntac	t Clo	hoe	٥	-0	onta	act O	nen					
Contact		uan	<u> </u>		Mou	nt		4			4						- 00	mac		300	v			010	pen					-
Block Position		and	1 Č		on Side			. †.	1		. 1	1		, 1 ,	1		. 1 .	1		, 1 ,	1		, † ,	1		∖ ¶,	1		₹1 ,	1
1						KA3 #2	1	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0
	KA1	or	KA2	KA1 #2	or							-												┢	⊢					-
Side 2 Side 1	0 0		- 0			KA2 #2	0	1	1	0	0	1	0	1	0	0	1	0	0	0	1	0	1	1	0	1	1	1	0	0
	KA1					KA3 #1	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	1	0	0	1
Operator Decating Notch		or	KA2	KA1 #1	or		1	1	0	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	1	0	0	1	0
TOP VIEW			00			#1	'		0	0	0	'	0		0	0		0	0	0		· ·	0	0	0	l '	0	0		0
For Cam, see Type K, K page 19-53	X, and S	SKS	elector S	Switch (Guid	ie,		в			С			D			Е			F			G			J			L	
Non-Illuminated Opera	tere (77	77						Туре			True			Тур	_		True			Trees	_		Turk			Trees	_		Туре	_
Manual Return, Operat			thout co	ntact	bloc	ke)/781		Type	3		Тур	e		тур	e		Тур	e		Туре	8		Туре		<u> </u>	Туре		<u> </u>	Type	_
Without Knob	tor only	(inout oo	maori	5100	NO J[/ O]	9	KS4	2		SKS4	13	1	SKS	4.4		SKS4	15		SKS4	16		SKS4	17	<	SKS4	0	SKS401		
With Knob [79]								KS4			KS4			SKS4			SKS4			SKS4			KS4				S49 SKS401 S49♦ SKS401			
Operator with Contact	Blocks	and	l Standa	rd blad	ck ki	nob [80				<u> </u>														<u> </u>	L-	110 11			1010	
With 1 KA1 on Side #2 (-	(S42 H13		S	KS4: H13		S	KS4 H13		S	KS4		SK	S46E	3H13	SI	KS47 H13		Sł	KS49 H13		Sł	<s40<sup>- H13</s40<sup>	
With 1 KA1 on Side #1 (H1)						Sł	(S42 H1		SK	S43		Sk	(S44		S	KS4	5B-	Sk	(S46I	BH1	SK	S47		SK	S49E		SK	S401	
With 1 KA1 on Side #1 a	and 1 KA	1 or	n side #2	(H2)			Sł	2B-	SK	S43	BH2	Sk	(S44	BH2	S	SKS45B- H2		Sk	(S46I	BH2	SK	S47	BH2	SK	S49E	3H2	SK	S401	BH2	
Spring Return from Le	ft to Cer	nter	, Operat	or Only	y (w	ithout o	conta	act b	loc	(s) [7	78]																			
Without Knob							S	KS6	62		SKS	63		SKS	64		SKS	65		SKS	66	5	SKS	57	S	SKS6	j9	S	SKS60	01
With Knob [79]							S	KS6	2♦	S	KS6	63♦	S	SKS6	64♦	S	KS6	5♦	5	SKS6	6♦	S	KS6	7♦	S	KS69	9♦	S	KS60	i1 +
Spring Return from Rig	ght to C	ente	er, Opera	ator Or	nly (without	t cor	tact	blo	cks)	[78]																			
Without Knob							S	KS7	2	5	SKS	73		SKS	74		SKS	75		SKS7	76	S	SKS7	77	S	SKS7	9	S	SKS70	J1
With Knob [79]							S	KS7	2♦	S	KS7	′3♦	S	SKS7	′4♦	S	KS7	′5♦	S	SKS7	6♦	S	KS7	7♦	S	KS79	9♦	S	KS70	i1+
Spring Return from Bo	oth Sides	s to	Center,	Opera	tor (Only (w	itho	ut co	onta	ct bl	ocks	5) [78	3]																	
Without Knob							S	KS5	52	5	SKS	53		SKS	54		SKS	55		SKS	56	5	SKS5	57	S	SKS5	9	S	SKS50	01
With Knob [79]							c	K Q E	2.	9	KSE	3.	C		1.	9	K Q F	5		SK GE	6.	9	K Q F	7.	9	KSE	0.	9	K 8 5 0	11.

With Knob [79]	SKS52♦	SKS53♦	SKS54♦	SKS55♦	SKS56♦	SKS57♦	SKS59♦	SKS501♦	SKS502♦
	-								
Illuminated Operators [77]	Туре	Туре	Туре	Туре	Туре	Туре	Туре	Туре	Туре
Manual Return, Operator Only (without contact blocks) [78	1								
Without Knob, 110-120V 50-60 Hz Transformer	SK42J1	SK43J1	SK44J1	SK45J1	SK46J1	SK47J1	SK49J1	SK401J1	SK402J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK42J1R	SK43J1R	SK44J1R	SK45J1R	SK46J1R	SK47J1R	SK49J1R	SK401J1R	SK402J1R
With other Color Knob [79] and other Voltage Light Module [81]	SK42J∎♦	SK43J∎♦	SK44J ∎ ♦	SK45J∎♦	SK46J∎♦	SK47J∎♦	SK49J∎♦	SK401J∎♦	SK402J∎♦
Spring Return from Left to Center, Operator Only (without	contact block	(s) [78]							
Without Knob, 110-120V 50-60 Hz Transformer	SK62J1	SK63J1	SK64J1	SK65J1	SK66J1	SK67J1	SK69J1	SK601J1	SK602J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK62J1R	SK63J1R	SK64J1R	SK65J1R	SK66J1R	SK67J1R	SK69J1R	SK601J1R	SK602J1R
With other Color Knob [79] and other Voltage Light Module [81]	SK62J∎♦	SK63J∎♦	SK64J∎♦	SK65J∎♦	SK66J∎♦	SK67J∎♦	SK69J∎♦	SK601J ∎ ♦	SK602J∎♦
Spring Return from Right to Center, Operator Only (without	t contact blog	:ks) [78]					·		
Without Knob, 110-120V 50-60 Hz Transformer	SK72J1	SK73J1	SK74J1	SK75J1	SK76J1	SK77J1	SK79J1	SK701J1	SK702J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK72J1R	SK73J1R	SK74J1R	SK75J1R	SK76J1R	SK77J1R	SK79J1R	SK701J1R	SK702J1R
With other Color Knob [79] and other Voltage Light Module [81]	SK72J∎♦	SK73J∎♦	SK74J∎♦	SK75J∎♦	SK76J∎♦	SK77J∎♦	SK79J∎♦	SK701J∎♦	SK702J∎♦
Spring Return from Both Sides to Center, Operator Only (w	ithout contac	t blocks) [78]	1						
Without Knob, 110-120V 50-60 Hz Transformer	SK52J1	SK53J1	SK54J1	SK55J1	SK56J1	SK57J1	SK59J1	SK501J1	SK502J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK52J1R	SK53J1R	SK54J1R	SK55J1R	SK56J1R	SK57J1R	SK59J1R	SK501J1R	SK502J1R
With other Color Knob [79] and other Voltage Light Module [81]	SK52J∎♦	SK53J∎♦	SK54J∎♦	SK55J∎♦	SK56J∎♦	SK57J∎♦	SK59J∎♦	SK501J ∎ ♦	SK502J∎♦

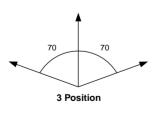


Table 19.155: Selector Switch Assembly Code and Knob Cat. No.

0-1	Standard	Knob	Gloved Ha	and Knob	
Color	[82] Knob Code	Cat. No. [77]	[82] Knob Code	Cat. No. [77]	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Y	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	A	A8	FA	A24	
Clear	С	C8	FC	C24	

Contact Blocks: Contact Blocks, page 19-62, Hermetically Sealed Logic Reed Contact Blocks, page 19-64, Hermetically Sealed Power Reed Contact Blocks, page 19-64 Light Modules: Standard Light Modules, page 19-63

[77] When ordering, add prefix 9001 to the catalog number.

[78] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.173 "H" Codes, page 19-65 as needed for your application.

[79]

Add the voltage assembly code as chosen from Standard Light Modules, page 19-63. Example: K25J with 208Vac = K25J3 [81]

[82] Add the knob color code. For LED, knob color must match LED. PUSH BUTTONS AND OPERATOR INTERFACE

Add the knob color code chosen from the Selector Switch Assembly Code table. For LED, knob color must match LED.
For other color knobs replace the B with knob color code. See Table 19.155 Selector Switch Assembly Code and Knob Cat. No., page 19-59. [80]

9001SK Corrosion Resistant Selector



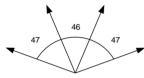
Switches Class 9001 / Refer to Catalog 9001CT1103

9001SK 4-Position Selector Switches

Table 19.156: 4-Position Selector Switches

Contact Block Required					1 — Contact Closed 0 — Contact Open					
Contact Block Position	Q	uantity	and Type	Mount on Side		×	X	1	1	
	KA1			KA1		KA3 #2	1	0	0	0
Side 2 Side 1		or		. KA1 #2	or	KA2 #2	0	0	1	0
Operator Locating	KA1			KA1		KA3 #1	0	0	0	1
Top View		or		#1	or	KA2 #1	0	1	0	0
am (see Type K, KX, and SK Selector Switch	Guide, page 19-53)		1	1		1		ŀ	1	

Non-Illuminated Operators	Type [83]
Manual Return [84], Operator Only (without contact blocks)	
Without Knob	SKS88
With other Color Knob [85]	SKS88♦
Illuminated Operators	Type [83]
Manual Return [84], Operator Only (without contact blocks)	
Without Knob, 110-120V 50-60 Hz Transformer	SK88J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK88J1R
With other Color Knob [85] and other Voltage Light Module [86]	SK88J∎♦



4 Position

Table 19.157: Selector Switch Assembly Code and Knob Cat. No.

······································					
<u>.</u>	Standard	Knob	Gloved Ha	nd Knob	
Color	[87] Knob Code	Cat. No. [83]	[87] Knob Code	Cat. No. [83]	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Y	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	А	A8	FA	A24	
Clear	С	C8	FC	C24	

For Contact Blocks, see Contact Blocks, page 19-62,Hermetically Sealed Logic Reed Contact Blocks, page 19-64, Hermetically Sealed Power Reed Contact Blocks, page 19-64 For Light Modules, see Standard Light Modules, page 19-63

Potentiometers with Dial Plate

Table 19.158: Potentiometers with Dial Plate (not UL listed)—Maximum Voltage 300 Vac

Power	Description	Ratings	Туре	
	Operator Only, for Single Potentiometer		SK20	
2 W	Operator with Single Potentiometer	NEMA 4, 13	SK21	
2 VV	VV Operator Only, for Tandem Potentiometer		SK22	
Operator with Tandem Potentiometer SK23				
When ordering	ng, add prefix 9001 to the catalog number.			

Table 19.159: Potentiometer Suffixes

Single Potentiomer	ter		
Suffix [88]	Resistance	Suffix [88]	Resistance
01	50 Ω	07	5 kΩ
02	100 Ω	08	10 kΩ
04	500 Ω	09	25 kΩ
05	1 kΩ	13	500 kΩ
39	2 kΩ	37	750 kΩ
06	2.5 kΩ	14	1 MΩ
Tandem Potentiom	eter		
Suffix [88]			Resistance
Sum [00]		Front	Rear
82		1 kΩ	1 kΩ

NOTE: Any potentiometer with a shaft 7/8 in. long and 1/4 in. diameter may be used with these operators.

[83] When ordering, add prefix 9001 to the catalog number.

[84] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.173 "H" Codes, page 19-65 as needed for your application.

[85] • Add the knob color code chosen from the Selector Switch Assembly Code table. For LED, knob color must match LED.

- [86] Add the voltage assembly code as chosen from Standard Light Modules, page 19-63. Example: K25J with 208Vac = K25J3
- [87] Add the knob color code from Table 19.237. For LED, knob color must match LED

[88] For the complete part number, add the suffix from this table to the catalog number from Table 19.158 Potentiometers with Dial Plate, page 19-60. Example: 9001K2105.



W9

Y9

Type SK Corrosion Resistant Pilot Lights

Table 19.160: Pilot Lights-UL Types 4, 4X, [89]

	Description		Voltage	Style	With Red Fresnel Color Cap [90]	With Green Fresnel Color Cap [90]	With Other Color Cap [90] [91]	Without Color Cap [90]
			110–120 V, 50–60 Hz	Transformer	SKP1R31	SKP1G31	SKP1∎	SKP1
Tr.	000101/01	Standard Pilot Light	220–240 V, 50–60 Hz	Transformer	SKP7R31	SKP7G31	SKP7∎	SKP7
	9001SKP1	(Fresnel color	24–28 Vac/Vdc	Full Voltage	SKP35R31	SKP35G31	SKP35	SKP35
		cap shown)	For other voltages	Transformer, Flashing or LED [92]	SKP▲R31	SKP▲G31	SKP∎	SKP ▲
			[90]	Full Voltage, Neon or Resistor [93]	SKP▲R31	SKP▲G31	SKP▲∎	SKP ▲
			110–120 V, 50–60 Hz	Transformer	SKT1R31	SKT1G31	SKT1∎	SKT1
	000101/71	Push-To-Test Pilot Light	220–240 V, 50–60 Hz	Transformer	SKT7R31	SKT7G31	SKT7∎	SKT7
ALL REF	9001SKT1	(Fresnel color	24–28 Vac/Vdc	Full Voltage	SKT35R31	SKT35G31	SKT35	SKT35
		cap shown)	For other voltages	Transformer, Flashing or LED [92]	SKT▲R31	SKT▲G31	SKT▲∎	SKT 🛦
			[90]	Full Voltage, Neon or Resistor [93]	SKT▲R31	SKT▲G31	SKT▲∎	SKT▲
and the second s			120 Vac Only	Resistor	SKTR38R31	SKTR38G31	SKTR38	SKTR38
5. 5		Remote Test Pilot Light	24–28 Vac Only	Full Voltage	SKTR35R31	SKTR35G31	SKTR35	SKTR35
	9001SKTR38	(Fresnel color cap shown)	For other voltages [90] [91] [94]	Full Voltage or Resistor [95]	SKTR▲R31	SKTR▲G31	SKTR▲∎	SKTR▲

White

Yellow

12

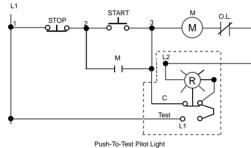


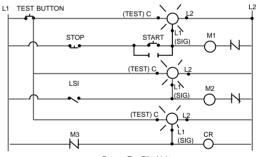


Table 19.161: Color Caps Plastic Dome Plastic Fresr Colo Amber A31 A9 Blue L31 L9 Clear C9 Green G31 R31 G9 R9 Red

W31 Y31

Typical Wiring Diagram





Remote Test Pilot Light

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-62 through Hermetically Sealed Power Reed Contact Blocks, page 19-64.

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-64. Contact blocks and legend plate not included unless otherwise noted.

[89] When ordering, add prefix 9001 to the catalog number.

- [90] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-63. EXAMPLE: SKT++R31 with 208 Vac red LED voltage = SKT37LRR31.
- [91] Add the color code as chosen from the color cap table below.EXAMPLE: SKP1 with a blue fresnel cap = SKP1L31.
- [92] The cap must be the same color as the LED light module chosen, e.g., for a green LED, use a green color cap.
- [93] On neon light modules, use clear color caps only.

Use only full voltage or resistor voltage assembly codes on remote test pilot lights. Do not choose LED, neon or transformer codes. For AC use only. [94]

- [95] Use only full voltage or resistor voltage assembly codes on remote test pilot lights. Do not choose LED (exception — these LED codes are allowed: 38LG, 38LL, 38LR, 38LW, 38LY), neon or transformer codes. For AC use only.
- *[*96] Add the color code as chosen from the color cap table below. EXAMPLE: SKP1 with a blue fresnel cap = SKP1L31.

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Type K, SK and KX Electrical Components

Class 9001 / Refer to Catalog 9001CT1103



Table 19.162: Standard Contact Blocks

Description	Symbol	Туре
(Clear Cover)	Direct-Acting	KA1
(Green Cover)	4 0	KA2
(Red Cover)	Direct-Acting	КАЗ
(Clear Cover)	QyO N.O. Contact Early Closing	KA4
(Red Cover)	N.C. Contact Late Opening	KA5
(Green Cover)	N.O. Contact Early Closing	KA6

Table 19.163: Additional Circuit Arrangements

			•
Description	Sym	bol	Туре
Sequencing [97] N.O. Contact of KA4 closes before N.O. Contact on KA1		0 0 0 0 KA1	Order One Type KA4 and One Type KA1
Overlapping [97] N.O. Contact of KA4 closes before N.C. Contact of KA5 Opens	0 0 0 KA4	OLO KA5	Order One Type KA4 and One Type KA5

Type KA Contact Blocks

The Class 9001 Type KA contact blocks are Fingersafe® contact blocks (meeting VDE 0106 Part 100). They have one screw mounting and captive (backed out) plus/minus terminal screws. These contact blocks are double-break, direct-acting contacts. Because of the wiping action of these contacts, they are suitable for use with programmable controllers. All contact blocks listed below accept up to 2 #12–#24 AWG solid or stranded wires. Recommended tightening torque for screw terminals is 7 lb-in.

Symbol	Binder H	Blocks with ead Screws ngersafe)	Gold Flashed Contacts with Standard Pressure Wire Terminals
	Type [98]	Quantity [99]	Type [98]
000	KA21	25–Up	KA31
- 0	KA22	25–Up	KA32
010	KA23	25–Up	KA33
N.O. Early Closing	KA24	25–Up	KA34
N.C. Contact Late Opening	KA25	25–Up	KA35

Contact blocks listed below are not Fingersafe, but provide:

- Terminals that accept ring tongue/fork tongue connectors
- Short single circuit contact blocks (0.75" deep vs. 0.97" deep on the Fingersafe)
- Same as old style Series G product available prior to March, 1989.
- For assembled operators, use form Y238 (add to catalog number as suffix, for example: 9001KRU1H13Y238)



Table 19.164: Contact blocks (not Fingersafe)

Symbol	Type [98]	Symbol	Type [98]
000	KA1G	N.O. Contact Early Closing	KA4G
-0	KA2G	N.C. Contact Late Opening	KA5G
010	KA3G	N.O. Contact Early Closing	KA6G

Table 19.165: Contact blocks with Quick-Connect terminals (not Fingersafe)

Symbol	Type [98]
 0	KA12
010	KA13

Table 19.166: Maximum Current Ratings for Control Circuit Contacts—Types KA1–KA6, KA21–KA25, KA31–KA35, KA1G–KA6G

	AC								DC			
	Inducti	ive (NEMA /	UL Type A600)	35% Powe	r Factor	Resistive 75% Power Factor		Inductive and Resistive (NEMA Q600)				
Volts	Mak	e	Break Continu		Continuous Make, Break and		Volts		Make an	d Break		Continuous
	Amperes	VA	Amperes	VA	Carrying Amperes	Continuous Amperes		KA1	KA2 KA3	KA4	KA5 KA6	Carrying Capacity
120	60		6.0				125	0.55	0.55		_	
240	30	7200	3.0	720	10	10 10	250	0.27	0.27	_	_	2.5
480	15	7200	1.5	720	10	10	600	0.10	0.10	_	_	
600	12		1.2									

[97] For push buttons or two-position selector switches only. For sequencing or overlapping contacts on other operators, refer to catalog 9001CT0001.

[98] When ordering, add prefix 9001 to the catalog number

[99] Minimum order quanitity is 25.

6



Standard and Shallow Depth Light Modules

Table 19.167: Standard Light Modules for Types K, SK, and KX Control Units[100][101][102][103]

Class 9001 / Refer to Catalog 9001CT1103

	Voltage	Description	Light Module Type [104]	Voltage Assembly Code	Rating	Temperature Code T-Code	Replacement Lam Part Number [100]
	All	Full Voltage (without Bayonet Base Lamp)	KM40	40	_	_	None
	6 Vac/Vdc	Full Voltage	KM31	31	.9 VA	T5	2550101020
	6 Vac/Vdc	LED Red	KM31LR	31LR	.5 VA	T6	6508805201
	6 Vac/Vdc	LED Red	KM31LG	31LG		T6	6508805203
	6 Vac/Vdc	LED Yellow	KM31LY	31LY		T6	6508805202
	12–14 Vac/Vdc	Full Voltage	KM32	32	1.2 VA	T5	2550101037
	12–14 Vac/Vdc	LED Red	KM32LR	32LR	1.2 VA	T6	6508805201
	12–14 Vac/Vdc	LED Green	KM32LG	32LG		T6	6508805203
	12–14 Vac/Vdc	LED Yellow	KM32LY	32LY		T6	6508805202
	18 Vac/Vdc	Resistor	KM33	33	1.4 VA	T5	2550101037
	24–28 Vac/Vdc	Full Voltage	KM35	35	1.2 VA	T3C	2550101002
	24–28 Vac/Vdc	LED Red	KM35LR	35LR	.28 VA	T4	6508805210
	24–28 Vac/Vdc	LED Green	KM35LG	35LG	.28 VA	T4	6508805212
	24–28 Vac/Vdc	LED Yellow	KM35LY	35LY	.28 VA	T4	6508805211
	24–28 Vac/Vdc	LED White	KM35LW	35LW	.28 VA	T4	6508805214
	24–28 Vac/Vdc	LED Blue	KM35LL	35LL	.28 VA	T4	6508805213
	48 Vac/Vdc	Full Voltage	KM36	36	2.6 VA	T3A	2550101025
	110-120 V, 50-60 Hz	LED Red	KM1LR	1LR		Т6	6508805201
- A	110–120 V, 50–60 Hz	LED Green	KM1LG	1LG		T6	6508805203
and the second s	110–120 V, 50–60 Hz	LED Yellow	KM1LY	1LY		T6	6508805202
Concession of the local division of the loca	110–120 V, 50–60 Hz	Transformer	KM1	1	2.4 VA	T6	2550101020
9	110–120 V, 50–60 Hz	Flashing	KMF1	F1	.85 VA	T6	2550101020
A R	120 Vac/Vdc	Full Voltage/Resistor		38	3.0 VA	T4	2550101030
		*	KM38				
an 2 0	120 Vac/Vdc	Neon [105]	KM11	11	0.2 VA	T6	2550101013
Mar and a second	120 Vac/Vdc	LED Red	KM38LR	38LR	1.4 VA	T4A	6508805210
1	120 Vac/Vdc	LED Green	KM38LG KM38LY	38LG 38LY	1.4 VA 1.4 VA	T4A T4A	6508805212
	120 Vac/Vdc 120 Vac/Vdc	LED Yellow LED White	KM38LY KM38LW	38LY 38LW	1.4 VA	T4A T4A	6508805211 6508805214
	120 Vac/Vdc 120 Vac/Vdc	LED White	KM38LL	38LL	1.4 VA	T4A	6508805213
	208–220 V, 50–60 Hz	Transformer	KM30LL KM3	3	2.5 VA	T6	2550101020
	208–220 V, 50–60 Hz	LED Red	KM3LR	3LR	2.3 VA	T6	6508805201
	208–220 V, 50–60 Hz			3LG			
		LED Green	KM3LG			T6	6508805203
	208–220 V, 50–60 Hz	LED Yellow	KM3LY	3LY		T6	6508805202
	208–220 V, 50–60 Hz	LED White	KM3LW	3LW		T6	6508805215
	208–220 V, 50–60 Hz	LED Blue	KM3LL	3LL		T6	6508805216
	220–240 V, 50–60 Hz	Transformer	KM7	7	2.0 VA	T6	2550101020
	220–240 V, 50–60 Hz	LED Red	KM7LR	7LR		T6	6508805201
	220–240 V, 50–60 Hz	LED Green	KM7LG	7LG		T6	6508805203
	220–240 V, 50–60 Hz	LED Yellow	KM7LY	7LY		T6	6508805202
	220–240 V, 50–60 Hz	LED White	KM7LW	7LW		T6	6508805215
	220–240 V, 50–60 Hz	LED Blue	KM7LL	7LL		T6	6508805216
	240 Vac/Vdc	Resistor	KM25	25	6.0 VA	T3A	2550101027
	240 Vac/Vdc	Neon [105]	KM12	12	0.3 VA	T6	2550101013
	277 V, 50–60 Hz	Transformer	KM8	8	2.4 VA	T6	2550101020
	380-480 V, 50-60 Hz	Transformer	KM5	5	2.8 VA	T6	2550101020
	480 Vac/Vdc	Neon [105]	KM14	14	0.5 VA	T6	2550101013
	550-600 V. 50-60 Hz	Transformer	KM6	6	2.5 VA	T6	2550101020

The products in Table 19.167 have been assigned Temperature Classifications (T-Codes) in accordance with UL 121201 (2017) — Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations. These codes can aid the user in proper application of these products in accordance with ISO/ISA/IEC 60079–0 (2017–12) Explosive Atmospheres — Part 0: Equipment — General Requirements and the National Electric Code NFPA 70 — Article 500.

NOTE: Light modules shown in Table 19.168 are not UL Certified for use in hazardous locations.

Table 19.168: Shallow Depth Light Modules For Types K and SK Control Units [100] [102] [106] [101]

	Veltere	Voltage Description Light Module Voltage Assembly	Rating	Temperature	Replacement Lamp		
	voitage	Description	Type [104]	Code	Rating	Code T-Code	Part Number
		Full Voltage	KM55	55	1.2 VA	_	2550101002
	24–28 Vac/Vdc	LED Red	KM55LR	55LR		_	6508805204
	24-28 Vac/Vdc	LED Green	KM55LG	55LG	0.5 VA	_	6508805206
Sector March		LED Yellow	KM55LY	55LY		_	6508805205
12		Full Voltage	KM58	58	3.0 VA	_	2550101027
	110–120 Vac/Vdc	LED Red	KM58LR	58LR		_	6508805204
	110-120 Vac/Vdc	LED Green	KM58LG	58LG	0.5 VA	—	6508805206
		LED Yellow	KM58LY	58LY		_	6508805205





CE marked

[100] For use with all operators except KX and remote test pilot.

[101] For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-64.

- [102] With LED light modules, use either a clear color cap or a cap the same color as the LED.
- [103] With neon type light modules, use a **clear** color cap only.
- [104] When ordering, add prefix 9001 to the catalog number.
- [105] Not for use on KX operators.
- [106] Reduces the depth of illuminated push buttons with contact blocks by over 33%.

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Hazardous locations do not always require the use of explosion-proof equipment like the Class 9001 Type BR control stations. Selecting the most appropriate device for the location can save you money. For more information on the types of hazardous locations, contact your local electrical inspector.

Table 19.169: Hazardous Locations

(N) CCN: NOIV

(U)

Types K SK

(0

```
File: E10054
                                File: LR26817
Class: 3218 02
                      SP₀
```







Square D Offering According to Class, Division, and Group

Table 19.170: Square D Offering According to Class, Division, and Group

	For			
Class	Division	Group(s)		Use
Ι	1	А	1.	Intrinsically Safe System
1	1	B, C, D	1.	9001 BR station
I	-	B, C, D	2.	Intrinsically Safe System
	2		1.	9001 K, SK, KX control stations with restrictions [107] [108]
1	2	A	2.	Intrinsically Safe System
			1.	9001 BR station
1	2	B, C, D	2.	9001 K, SK, KX control stations with restrictions [107] [108]
			3.	Intrinsically Safe System
Ш	1	E, F, G	1.	9001 BR station
П	I	E, F, G	2.	Intrinsically Safe System
			1.	9001 BR station
Ш	2	E, F	2.	9001 K, SK, KX control stations with restrictions [107] [108]
			3.	Intrinsically Safe System
			1.	9001 BR station
Ш	2	G	2.	9001 K, SK, KX control stations with restrictions [109] [108]
			3.	Intrinsically Safe System
			1.	9001 BR Station
Ш	1, 2	_	2.	9001 K, SK, KX control stations with restrictions [109] [108]
			3.	Intrinsically Safe System

Hermetically Sealed Logic Reed Contact Blocks

Table 19.171: Hermetically Sealed Logic Reed Contact Blocks [110] [111] Suitable for use on low energy level circuits

 paien		

- The maximum number of logic and/or power reed contact blocks per operator is as indicated on individual selection tables for standard contact blocks, **except**: . On 3 position selector switches with cams C, D, E, F, G, L, or M, mount reed blocks on one side only (either side), maximum 2 in tandem.
- On 4 position selector switches, mount reed blocks on one side only (either side), maximum 2 in tandem.

÷ ۲	KA41
	KA42
	KA43
	KA44
}. ₽Åt	KA45

Type [112]

Symbol

On joysticks or on Type KR8 or SKR8 push-pull operators, mount reed blocks on **one side only** (either side), maximum 2 in tandem.

Max. Vac/Vdc		Maximum Load	
Max. vac/vuc	Resistive	Inductive	Continuous
32/30	.25 A	.10 A	.5 A
120/100	8 VA	3 VA	.5 A

Hermetically Sealed Power Reed Contact Blocks

Table 19.172: Hermetically Sealed Power Reed Contact Blocks [110] [111] [113]

Description	Symbol	Type [112]
The maximum number of logic and/or power reed contact blocks per operator is	E [^] H	KA51
The maximum number of logic and/or power reed contact blocks per operator is as indicated on individual selection tables for standard contact blocks, except :	° ∎•	KA52
• On 3 position selector switches with cams C, D, E, F, G, L, or M, mount reed		KA32
blocks on one side only (either side), maximum 2 in tandem.	P ²	KA53
• On 4 position selector switches, mount reed blocks on one side only (either		INAU3
side), maximum 2 in tandem.	<u> </u>	KA54
 On joysticks or on Type KR8 or SKR8 push-pull operators, mount reed blocks on one side only (either side), maximum 2 in tandem. 	£ 1	KA04
on one side only (either side), maximum 2 in tandem.	۲Åt	KA55

Volts	Ma	ike	Brea	Continuous					
voits	Α	VA	Α	VA	Continuous				
AC NEMA C300 [114]								
120	10.00	4000	1.000	400	0.0				
240	5.00	1200	.500	120	3.0				
DC NEMA Q150 [DC NEMA Q150 [115]								
115	.50	58	.50	58	3.0				

[107] Any Class 9001 Type K, SK or KX operator can be used in an area classified as Class I, Division 2 hazardous locations, if:

- 1. Only logic (KA40 series) or power (KA50 series) reed contact blocks are used.
- 2. All Type K and SK illuminated operators are UL approved for use in Class I Division 2 areas. (Add Form Y243 to single lamp Push-To-Test pilot lights.)
- 3. Type KX illuminated operators do not use 4 lamp light modules, or 2 lamp light modules other than the transformer type. (Add Form Y243 to single lamp Push-To-Test pilot lights.) 4. The operators are mounted in any NEMA 4 & 13 enclosures.
- [108] UL Listed: File E10054(N), CCN NOIV.
- [109] Any Class 9001 Type K, SK, or KX operator mounted in a Class 9001 Type KY, KYSS, KYAF, SKY enclosure may be used, except potentiometer operators.
- [110] Not for use in pendant stations
- [111] When ordering, add prefix 9001 to the catalog number.
- [112] All contact blocks listed below accept #12-18 solid or stranded wire.
- [113] The power reed contact blocks can be used with standard industrial relays and starters through NEMA Size 4. Minimum voltage is 5 V and the minimum current is 1 mA.
- [114] Inductive Rating-35% Power Factor.
- [115] Inductive and Resistive Ratings



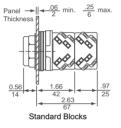
Type K, SK, and KX Contact Block "H" Numbers

The design of Class 9001 Type KA contact blocks allows them to be mounted side by side and/or in tandem. This enables you to specify an operator and a specific arrangement of contact blocks (shipped fully assembled) with a single Type number.

Table 19.173: "H" Codes

	Suffix No.	Positions					
	(Add to Operator Type)	1	2	3	4	5	6
Example: A Type KR1B	H1	KA1	14.4.4				
push button with 2 Type KA1 contact blocks would	H2 H3	KA1 KA1	KA1 KA1	KA1			
be Class 9001	H4	KA1	KA1	KA1	KA1		
Type KR1BH2.	H5	KA2					
	H6	KA3					
	H7 H8	KA2 KA3	KA2 KA3				
	H9	KA4	KA1				
CARGE CONTRACTOR OF CONTRACTOR	H10	KA4	KA5				
	H11	KA1	KA1		KA1		
	H12	KA2	KA3	KA2	KA3		
	H13 H14		KA1 KA3				
	H14 H15	KA2	KA3	KA2			
	H16	KA2	KA3	KA2	KA3		
QT 4 10	H17	KA1	KA1	KA2			
	H18	KA3	KA1	KA2		144.0	
SS6	H19 H21	KA1 KA2	KA1 KA3	KA3 KA1	KA1	KA3 KA1	
Side 1 Side 2							
Side i Side z	H23 H24	KA1 KA1	KA1 KA2	KA1	KA1	KA1	KA1
Locating Nib	H25	KA1	KA2 KA3				
NOTE: For "H" Codes not in				ectric C	ustome	r Care C	Center.

Table 19.174: Dimensions When Using Contact Blocks



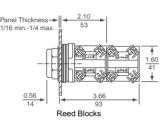
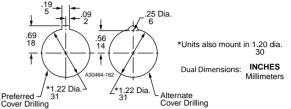


Table 19.175: Basic Operators (Without Color Caps, Mushroom Buttons, Knobs, Selector Switch Cams, Contact Blocks, Light Modules, or Legend Plates)

	For UL Types/NEMA			
Description	1, 3R, 4, 12, 13 <i>[116]</i>	4, 4X, 13 [116]		
Non-Illuminated Push Button (Extended Guard)	KR2	SKR2		
Non-Illuminated Push Button (No Guard)	KR3	SKR3		
Non-Illuminated Push Button (Mushroom Button/ Screw-On)	KR20	SKR20		
Non-Illuminated Dual Push Button (Momentary)	KR6	_		
Non-Illuminated Dual Push Button (Momentary Interlocked)	KR67	_		
Non-Illuminated Dual Push Button (Maintained Interlocked)	KR7	_		
Momentary Pull—Maintained Neutral— Momentary Push	KR8 [117] [118]	SKR8 [117]		
Maintained Pull—Maintained Push	KR9 [117] [118]	SKR9 [117]		
Illuminated Push Button (Full Guard—Plastic Top)	K1L [119]	SK1L [119]		
Illuminated Push Button and Push-To-Test (No Guard)	K2L [119] [120]	SK2L [119] [120]		
Illuminated Push Button (Full Guard—Metal Top)	K3L [119]	_		
Standard Pilot Light	KP	SKP		
3 Position Maintained Selector Switch	KS4 [117]	SKS4 [117]		
3 Position Spring Return Both Sides To Center— Selector Switch	KS5 [117]	SKS5 [117]		
3 Position Spring Return Left To Center—Selector Switch	KS6 [117]	SKS6 [117]		
3 Position Spring Return Right To Center— Selector Switch	KS7 [117]	SKS7 [117]		

Mounting Hole for All Types K, SK, and KX Control Units



Hole Punch: Use Greenlee Tool #60242 to punch mounting hole and notch.

Maximum Contact Block Usage(Includes Types K, SK and KX)

- 2 blocks mounted side by side only: Any 2, 3 or 4 position spring return selector switch (non-illuminated, illuminated or keyed).
- 2 blocks mounted in tandem 1 side only: Any 2 operator interlocked push button.
 2 blocks mounted in tandem (total of four blocks): Any selector push button
- 2 blocks mounted in tandem (total of four blocks): Any selector push button, keyed push button, 2, 3, or 4 position maintained selector switch (non-illuminated, illuminated or keyed), push-pull operators (non-illuminated or illuminated), joy stick, dual push button.
- 3 blocks mounted in tandem (total of six blocks): Single momentary push buttons (non-illuminated or illuminated).

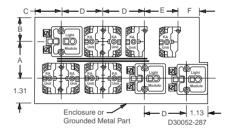


Table 19.176: Min. Centerline Spacing, Type K & SK Control

Legend	Operator	Centerline Spacing (in.)							
Plate	Operator	Α	В	С	D	E	F		
_egend F	Plate Orientation Position #1								
KN2	Standard Push Button 1.375 in. Dia. Mushroom	1.75 1.75	1.31 1.31	1.44 1.44	2.25 2.25	1.69 1.69	0.88 0.88		
KN5	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 1.75	1.31 1.31	1.44 1.44	2.25 2.25	2.25 1.69	1.12 0.88		
KN3	Standard Push Button 1.375 in. Dia. Mushroom	2.00 2.00	1.31 1.31	1.44 1.44	2.25 2.25	1.75 1.75	0.88 0.88		
NN3	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 2.00	1.31 1.31	1.44 1.44	2.25 2.25	2.25 1.75	1.12 0.88		
KN4	Standard Push Button 1.375 in. Dia. Mushroom	1.94 1.94	1.31 1.31	1.44 1.44	2.25 2.25	1.62 1.62	0.88		
IXIN4	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 1.74	1.31 1.31	1.44 1.44	2.25 2.25	2.25 1.62	1.12		
KN6	Standard Push Button 1.375 in. Dia. Mushroom	2.38 2.38	1.62 1.62	1.44 1.44	2.25 2.25	2.25 2.25	1.12		
KINO	2.25 in. Dia. Mushroom Selector Switch Knobs	2.38 2.38	1.62 1.62	1.44 1.44	2.25 2.25	2.25 2.25	1.12		
Legend F	Plate Orientation Position #2								
KN2	Standard Push Button 1.375 in. Dia. Mushroom	1.62 1.62	1.31 1.31	1.44 1.44	2.25 2.25	1.75 1.75	0.88		
KN5	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 1.62	1.31 1.31	1.44 1.44	2.25 2.25	2.25 1.75	1.12		
KN3	Standard Push Button 1.375 in. Dia. Mushroom	1.75 1.75	1.31 1.31	1.44 1.44	2.25 2.25	2.00 2.00	0.88 0.88		
INN3	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 1.75	1.31 1.31	1.44 1.44	2.25 2.25	2.25 2.00	1.12 0.88		
KN4	Standard Push Button 1.375 in. Dia. Mushroom	1.62 1.62	1.31 1.31	1.44 1.44	2.25 2.25	1.94 1.94	1.00		
KN4	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 1.62	1.31 1.31	1.44 1.44	2.25 2.25	2.25 1.94	1.12		
KN6	Standard Push Button 1.375 in. Dia. Mushroom	2.25 2.25	1.31 1.31	1.62 1.62	2.38 2.38	2.38 2.38	0.88		
r.ind	2.25 in. Dia. Mushroom Selector Switch Knobs	2.25 2.25	1.31 1.31	1.62 1.62	2.38 2.38	2.38 2.38	1.12		

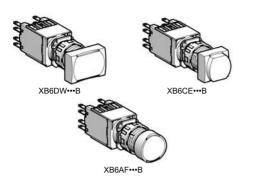
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[116] When ordering, add prefix 9001 to the catalog number.

- [117] Operator can be converted to an illuminated operator by removing the liner (6512240601) and adding a light module.
- [118] These operators can be supplied with 1-3/8 in or 2-1/4 in dia. mushroom buttons. For 1-3/8 in.: add () 20 to type number. For 2-1/4 in.: Add () 21 to type number. The () refers to the color chosen. Voids UL and NEMA 6 Rating.
- [119] Operator can be converted to a non-illuminated operator by adding liner (6512240601).
- [120] Operator includes jumper wires for push-to-test conversion.

XB6 Complete Devices Refer to Catalog DIA5ED2130406EN

Schneider Electric



XB6 Complete Devices

Table 19.177: Illuminated Push Buttons (12–24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs

Type of Operator	Type of	Contact	Color	Rectangular	Square	Round
	N.O.	N.C.			Catalog Number	
	4		White	XB6DW1B1B	XB6CW1B1B	XB6AW1B1B
	1	—	Green	XB6DW3B1B	XB6CW3B1B	XB6AW3B1B
	_	1	Red	XB6DW4B2B	XB6CW4B2B	XB6AW4B2B
Flush,			White	XB6DW1B5B	XB6CW1B5B	XB6AW1B5B
spring return			Green	XB6DW3B5B	XB6CW3B5B	XB6AW3B5B
	1	1	Red	XB6DW4B5B	-	XB6AW4B5B
			Yellow	XB6DW5B5B	XB6CW5B5B	_
			Blue	XB6DW6B5B	—	XB6AW6B5B
			Green	XB6DF3B1B	XB6CF3B1B	XB6AF3B1B
			Yellow	XB6DF5B1B	_	_
			White	XB6DF1B5B	XB6CF1B5B	XB6AF1B5B
	1	1	Green	XB6DF3B5B	XB6CF3B5B	XB6AF3B5B
			Red	XB6DF4B5B	_	_
Extended	4		White	_	XB6CE1B1B	_
Extended, spring return	1	_	Green	_	_	XB6AE3B1B
spring return			Green	_	_	XB6AE3B5B

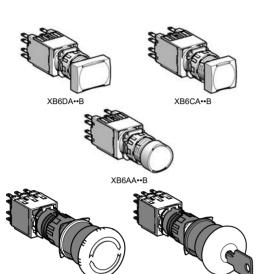


XB6 Complete Devices Refer to Catalog DIA5ED2130406EN

XB6AS9345B

www.se.com/us

XB6AV••B



XB6AS8345B

Table 19.178: Pilot Lights (120 Vac LED)

Complete Units with Quick Connectors/Solder Tabs

Color	Rectangular	Square	Round
		Catalog Number	
Green	_	_	XB6AV3GB
Red	_	_	XB6AV4GB
Yellow		_	XB6AV5GB

Table 19.179: Push Buttons (Non-Illuminated) **Complete Units with Quick Connectors/Solder Tabs**

Type of Push	Type of	Contact	Color	Rectangular	CO Square	Round			
	N.O.	N.C.		Catalog Number					
			White	XB6DA11B	XB6CA11B	_			
	4		Black		XB6CA21B	XB6AA21B			
	1	_	Green	XB6DA31B	_	XB6AA31B			
Flush, spring			Blue	XB6DA61B	_	_			
return		1	Black	XB6DA22B	_	_			
			Black		XB6CA25B	XB6AA25B			
			Green	XB6DA35B	_	XB6AA35B			
			Red	XB6DA45B	XB6CA45B	_			

Table 19.180: Trigger Action Emergency Stop Mushroom Head Push Buttons (Color Red) [1]

Shape of	Type of Push	Type of	Contact	Diameter	Catalog Number	
Head	Type of Fush	N.O.	N.C.	of Head (mm)	Suturog Humber	
		_	1	30	XB6AS8342B	
	Turn-to-release	1	1	30	XB6AS8345B	
		_	1	30	_	
	Key release	1	1	30	—	

Refer to Catalog 9003CT1301



Class 9003

Type K Rotary Cam Switches

Applications		Used in building control panels and conso and direct control for simple machines.	oles, Type K cam sv	vitches allow contr	ol of processes an	d utilities in indust	ry and buildings,
	Off-On/On-Off switches	1 to 6-pole	1 to 6-pole				
	Stepping switches	2 to 12-position, 1 to 4-pole					
	Changeover switches	1 to 5-pole	1 to 4-pole				
	Measurement switches	Voltmeter and ammeter					
Functions	Reversing switches	2 and 3-pole	2 and 3-pole				
	Reversing star-delta switches	Star-delta	Star-delta				
	Pole change switches	2 and 3-speed	2-speed				
Conventional	rated thermal current (Ith)	20 A	32 A	50 A	63 A	115 A	150 A
		690 V	690 V	690 V	690 V	690 V	690 V
		AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase
Electrical ope	rating characteristics	230 V - 2.2 kW - 8.3 A	230 V - 5.5 kW	230 V - 7.5 kW	230 V - kW	230 V - 5 kW	230 V - 22 kW
	9	AC - 15	AC - 15	AC - 15	-	-	-
		230 V - 4 A	230 V - 14 A	230 V - 6 A			
Frank alsta da		IP 40	15.40		•		
Front plate de	gree of protection	IP 65 (with seal)	IP 40				
		Complete switches and custom					
Product Com	position	Adaptable sub-assemblies	Complete switche	s			
Compatibility		Ø 22 control and signalling units	-				
		Multi-fixing					
	Front Mounting	Single Ø 22 hole	By 4 holes on 48	mm centers		By 4 holes on 68	mm centers
Mounting	Rear Mounting	Screw fixing, 4 holes on 36 mm centers	Screw fixing, 4 ho	les on 48 mm center	'S	Screw fixing, 4 ho centers	les on 68 mm
		45 x 45					
Front plate di	mensions (mm)	60 x 60 (adaptable sub-assemblies)	64 x 64			88 x 88	
		Black and red standard and long handles				1	
		Key operator	_				
Operating hea	de	Metallic head	Black standard ha				
Operating nea	103	Metallic legend with black marking or	Metallic legend, b	lack marking			
		black legend with white marking	_				
		UL-CSA					
Approvals		UL-CSA EN/IEC 60947-3	cULus				
Appiovais		EN/IEC 60947-3 EN/IEC 60947-5-1	EN/IEC 60947-3				
Туре		Туре К2	Type K30–K150				
Cam switch m	adal [1]	Class 9003, K2		KEO	K63	KAAF	K450
cam switch m		GIASS 3003, NZ	K30	K50	N03	K115	K150

UElectric www.se.com/us

Schneider

Instructions for 9003K2 Key Sheet

The Key Sheet for ordering a 9003K2 cam switch is on page 19-70, and an example of a completed key sheet is on page 19-71. The instructions below are for filling out the key sheet on page 19-70.

- 1. Select the box for K2 (20 A).
- 2. Identify the Product quantity in the box provided.
- 3. Verify front mounting by selecting the box: Front Mounting.

Class 9003

- 4. If ordering a base/contact block only, select 22 mm plastic or 22 mm metal mounting. Then complete the following:
 - a. ③ Switching Angle (positions)
 - b. ④ Contact scheme and jumpers (pre-wired)
- 5. If ordering a complete switch (base/contact block, head, legend), check the box. Then complete the following:
 - a. ① Operating head preference
 - b. ② Legend preference
 - c. ③ Switching angle (positions)
 - d. ④ Contact scheme and jumpers (pre-wired)
- 6. Operating head preference ① (identify the operating head preferred)
- 7. Legend preference ② (identify the legend preference)
- 8. Switching angle (positions) (3) and special legend marking
 - a. Identify whether the switch need is 30° or 60°, or 45° or 90° switching angle.
 - b. Fill in the legend markings desired at the positions indicated. Zero degrees is always straight up.
- 9. The rotation of the operator stops clockwise at the top or 0° position. If full rotation through 360° is desired, the Full rotation through 360° box must be checked.
- 10. Contact scheme and jumpers (pre-wired) ④
 - a. If jumpers are desired to be pre-wired, draw a horizontal line between the terminals to be jumpered per the example on page 19-71.
 - b. Refer to the Legend at the bottom of page 19-70 for contact sequences, i.e.: X indicates contact closure. See page 19-71 for examples of filling in this portion of the key sheet.

Application and Ordering Information

Class 9003



9003K2 Cam Switch Order Form

Orde	er No.													90	03K2	(20 /	A):]				
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														(ete: (4		
Produc	ct refere	ence:														stic m	ountin					
Туре	:	Κ									1	Opera	ting hea	ad refer	ence:		9003	ΒK	-			
3		ching angle	e (pos	itions)						2	Legen	d refere						900	3KZ.	<u></u>	
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Application and Ordering Information Class 9003

Schneider Electric

9003K2 Cam Switch Order Form—Example

Orde	er No.					Date				-				90	03K2	(20 /	4): 🗙]				
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XALD101H29H7



XALK174H7

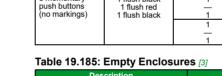






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XALD321H29H7



Description	Number of Holes	Catalog Number								
For normal environments, CSA approved and UL Listed (with stainless steel lid mounting screws)										
Light gray base RAL7035 Dark gray lid RAL7016	1 2 3 4 5	XALD01H7 XALD02H7 XALD03H7 XALD04H7 XALD05H7								
Light gray base RAL7035 Yellow lid RAL1012	1	XALK01H7								

Table 19.181: Start or Stop Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016

Description	Type of Push	Type of	Contact	Marking	Catalog Number
Description	Type of Lush	N.O.	N.C.	Marking	oatalog Nulliber
Marking on Legend Holde	ər				
1 memoritary ruch huttan	Flush black	1	_	Start	XALD101H29H7
1 momentary push button	Flush red	_	1	Stop	XALD111H29H7
Marking on Legend Holde	ər				
1 mushroom head push button Ø 40 mm, momentary	Red	Ι	1	Stop on red legend	XALD164H29H7

Table 19.182: Trigger Action Emergency Stop

Polycarbonate; Light gray base, RAL7035; Yellow lid, RAL1012

Description	Туре	Type of	Contact	Catalog Number	
Description	туре	N.O.	N.C.	Catalog Nulliber	
1 mushroom head push button Ø 40 mm, red Turn-to-release	Trigger action [1]	—	1	XALK178H7	
1 mushroom head push button Ø 40 mm, red Key release (Key No. 455)	Trigger action [1]	_	1	XALK188H7	
1 mushroom head push button Ø 40 mm, red Push-pull	Trigger action [2]	_	1	XALK198H7	

Table 19.183: Start-Stop Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016

Description	Type of Push	Type of	Contact	Text	Catalog
Description	Type of Lusin	N.O.	N.C.	Text	Number
2 momentary	1 flush black 1 flush red	1	1	Start Stop	XALD211H29H7
push buttons	1 flush black 1 flush black	1		Forward Reverse	XALD251H29H7

Table 19.184: Three Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016

Description	Type of Push	Type of Contact		Text	Catalog
		N.O.	N.C.	Text	Number
3 momentary push buttons (no markings)	1 flush black 1 flush red 1 flush black	1 1	1	Open Stop Close	XALD351H29H7
		1 1	1	Forward Stop Reverse	XALD311H29H7
		1 1	1	Up Stop Down	XALD321H29H7

20 0

- [2] [3]
- Emergency Off (IEC 60364-5-53) For customer assembly using XB5 operators and standard screw-terminal contact blocks, see XB5 Non-Illuminated Operators, page 19-28.
- Either mounting method can be used: contact block ZENL mounting on metal plate, or contact block ZBE mounting on operator with mounting collar.









XAP Enclosures and Accessories

Table 19.186: Undrilled Enclosures, Glass-Reinforced Polyester

Type	H x W Dir	Catalog		
туре	IN	mm	Number	
	Without hinges	3.34 x 5.75	85 x 146	XAPA1100
NEMA 4, 4X, 13 Usable depth 3.27 in. (83 mm)		3.34 x 8.90	85 x 226	XAPA2100
Usable depth 3.27 in. (83 mm)		5.95 x 9.49	151 x 241	XAPA3100

Table 19.187: Drilled Insulated Enclosures, Glass-Reinforced Polyester [4]

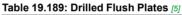
_	Number of	Number of Rows		H x W Dimensions		Catalog	
Туре	Knockouts 22 mm	Vertical	Horizontal	IN			
NEMA 4, 4X, 13	1	1	1	3.35 X 5.75	85 X 146	XAPA1110	
Usable depth 3.27 in.	2	1	2	3.35 X 5.75	85 X 146	XAPA1120	
(83 mm) 1.58 in. (40	4	2	2	3.35 X 5.75	85 X 146	XAPA1104	
mm) centerline	8	2	4	3.35 X 8.90	85 X 226	XAPA2108	
spacing of holes	16	4	4	5.94 X 9.49	151 X 241	XAPA3116	

Table 19.188: Drilled Die Cast Enclosures (Painted Gray RAL7032) [5]

	T		Usabl	e Depth	Number of	H x W x D Dimensions					
	Туре	Material	IN	mm	22 mm holes	IN	mm	Catalog Number			
	NEMA 4, 13				2	3.15 x 3.15 x 2.03	80 x 80 x 51.5	XAPG19702			
	1.18 in. (30 mm)	_	1.93	49	3	5.12 x 3.15 x 2.03	130 x 80 x 51.5	XAPG29703			
	centerline	Zinc			4	6.90 x 3.15 x 2.03	175 x 80 x 51.5	XAPG39704			
· ·	spacing of holes for horizontal mount		2.93	74.5	4	6.90 x 3.15 x 3.03	175 x 80 x 77	XAPG39804			
			1.93		1	3.15 x 3.15 x 2.03	80 x 80 x 51.5	XAPG19201			
				1.93	1.93	1.93 1.93	93 1.93	2	5.12 x 3.15 x 2.03	130 x 80 x 51.5	XAPG29202
	NEMA 4, 13				3	6.90 x 3.15 x 2.03	175 x 80 x 51.5	XAPG39203			
	1.58 in. (40 mm)	Zinc			1	3.15 x 3.15 x 3.03	80 x 80 x 77	XAPG19501			
	centerline spacing of holes		2.93	74 5	2	5.12 x 3.15 x 3.03	130 x 80 x 77	XAPG29502			
XAPG29703	for vertical mount		2.93	.93 74.5	3	6.90 x 3.15 x 3.03	175 x 80 x 77	XAPG39503			
					4	8.66 x 3.15 x 3.03	220 x 80 x 77	XAPG49504			
		Aluminum	2.93	74.5	5	12.20 x 3.35 x 3.03	310 x 85 x 77	XAPG59505			



XAPE303



Туре	Material	Number of	HxWxD	Catalog	
туре	Wateria	22 mm holes	IN	mm	Number
NEMA 4, 13 1.18 in. (30 mm) centerline spacing of holes	Anodized Aluminum	1	2.83 x 2.83	72 x 72	XAPE301
		2	4.13 x 2.83	105 x 72	XAPE302
		3	5.43 x 2.83	138 x 72	XAPE303
		4	6.73 x 2.83	171 x 72	XAPE304
		5	8.03 x 2.83	204 x 72	XAPE305

Table 19.190: Optional Back Box (for finger protection, if required)

Туре	Material	For Use With	Catalog Number
		Flush plate XAPE301	XAPE901
	Insulating Fiberglass	Flush plate XAPE302	XAPE902
Protective rear covers		Flush plate XAPE303	XAPE903
		Flush plate XAPE304	XAPE904
		Flush plate XAPE305	XAPE905

19

[5] Can use either XB4 or XB5 products.

9001B Standard Duty Control Stations

9001B Standard Duty Control Stations

Refer to Catalog 9001CT1104





NEMA 1 Surface Mounting Type BG201



NEMA 4 Type BW243



NEMA 1 Flush Mounting (w/o pullbox) Type BF201



NEMA 7 and 9 Type BR103

No. of Buttons	Nameplate Markings and Features	Contact Symbol [6]	Surface Mounting NEMA1	Stainless Steel Flush Plate [7]	Watertight and Dusttight NEMA4	For Hazardous Locations NEMA 7 & 9 [8]
			Type [9]	Type [9]	Туре [9]	Type [9]
	Stop (Mushroom Button)	3	—	—	BW151	BR103
	Stop (Lockout)	3	—	—	BW148	BR104
	Off-On (Selector Switch)	19	BG111	—	_	—
	Hand-Off-Auto (Selector Switch)	17	BG112	-	_	_
	Start-Stop	145	BG201	BF201	BW240	BR204
	Start-Stop (Mushroom on Stop)	145	BG203	-	BW250	—
	Start-Stop (Lockout on Stop)	145	BG204	_	BW241	BR204
	Forward-Reverse	146	BG206	—	BW242	—
	Open-Close	146	BG207	—	BW244	—
	Up-Down	146	BG208	_	BW243	BR208
	Raise-Lower	146	BG209	—	_	—
2	On-Off	145	—	—	BW245	—
	On-Off	146	—	BF211	—	—
	Universal (w/o legend inserts)	25	BG214	—	BW260	_
	Start-Stop (Maintained Contact)	10	BG215	-	BW255	_
	On -Off (Maintained Contact)	10	_	_	BW256	BR216
	Universal (Maintained contact w/o legend inserts)	10	—	-	_	BR218
	Forward-Reverse-Stop	109	BG302	_	_	_
	Opn-Close-Stop	109	BG303	_	_	—
	Up-Down-Stop	109	BG305	_	_	—
	Start-Jog-Stop	109	BG316	—	—	_
	Universal (w/o legend inserts)	8	BG307	—	_	_
	Start-Stop, Red Pilot Light: 120Vac/dc	145 & 121	BG308	—	—	—

120Vac/dc For Replacement Interiors, see Replacement Interiors for Type B Standard Duty Push Button Stations, page 19-75.

For Ratings, see Electrical Contact Ratings, page 19-75.

[6]

- See Replacement Parts for Type B Standard Duty Control Stations, page 19-75. Uses standard 2.0 or 2.13 in. deep wall boxes, single gang for Types BF1 and BF2, two gang for Type BF3 Also rated for Class I, Division I and II, Groups B, C, or D; Class II, Division I and II, Groups E, F, or G
- [7] [8] [9] When ordering, add prefix 9001 to the catalog number.





Replacement Parts for Type B Standard Duty Control Stations NOTE: Contact block assemblies for all Type BG stations include cover and contact block. Replacement contact block assemblies and terminal block wiring receptacles for push buttons have provision for 1 N.O. & 1 N.C. circuit on each button. Unneeded circuits need not be wired.

Table 19.192: Mounting Bracket

Description	Catalog Number
C-Shaped Mounting Bracket for 9001BR Interior	3110112001

Type BGC214 (Type BGC contact block assemblies include cover.)



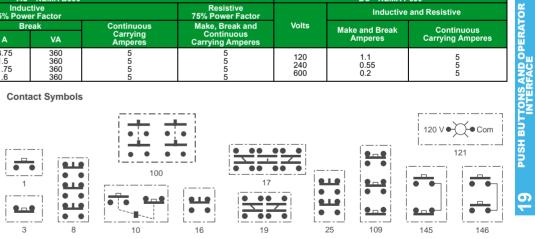
Type BGB214



Table 19.193: Electrical Contact Ratings [10]

	AC—NEMA B600						DC—NEMA P600		
	Inductive 35% Power Factor				Resistive 75% Power Factor		Inductive	and Resistive	
Volts	Ma	ake	Bre	eak	Continuous	Make, Break and	Volts	Make and Break	Continuous
	А	VA	А	VA	Carrying Amperes	Continuous Carrying Amperes		Amperes	Carrying Amperes
120 240 480 600	30.5 15 7.5 6	3600 3600 3600 3600	3.75 1.5 .75 .6	360 360 360 360	5 5 5 5	5 5 5 5	120 240 600	1.1 0.55 0.2	5 5 5

Contact Symbols



[10] OSHA Regulation, Section 1910.70, Overhead and Gantry Cranes, limits the voltage of pendant push buttons to 150 Vac or 300 Vdc.

B

PUSH

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9001KY and 9001SKY Control Stations

	UL Types 1, 3 and 13/ NEMA 1, 3, and 13	UL Types 1, 3, 4 and 13/ NEMA 1, 3, 4 and 13	UL Types 1, 3, 4, 4X and 13/ NEMA 1, 3, 4, 4X and 13		
lo of Holes	Sheet Steel	Die Cast Zinc	Stainless Steel (304)	Polymeric (Plastic)	
No of Holes	Туре	Туре	Туре	Туре	
1	KYAF1	KY1	KYSS1	SKY1	
2	KYAF2	KY2 [12]	KYSS2	SKY2	
3	KYAF3	KY3 [12]	KYSS3	SKY3	
4	KYAF4	KY4 [12]	KYSS4	SKY4	
6	KYAF6	KY6	KYSS6	_	

Table 19,195: Guarded Enclosures



KYG1Y (mushroom head not included)



K26

Table 19.197: Assembled Control Stations

NOTE: See Assembled Control Stations, page 19-76

Table 19.195: Guarded Enclosures									
UL Types 1, 3, 4 and 13/ NEMA 1, 3, 4 and 13									
No of Holes	Cover Color	Box Color	Туре						
1	Gray	Gray	KYG1 [13]						
1	Yellow	Gray	KYG1Y [13]						
	IOTE: See Assembled Central Stations, page 10.76								

NOTE: See Assembled Control Stations, page 19-76

Table 19.196: Stainless Steel (302) NEMA 1 Flush Plates [14]

No of Holes	Description	Туре
1	1 Hole flush plate, cover screws, insulating liners	K25
2	2 Hole flush plate, cover screws, insulating liners	K26
3	3 Hole flush plate, cover screws, insulating liners	K27
4	4 Hole flush plate, cover screws, insulating liners	K28

Assembled 9001KY/SKY Control Stations

Able 19.197: Assembled Control Stations									
	No of	Operator Style and Features							
	Holes	Operator Style and Features	Туре	Enclosure	Operators	Contact Blocks	Legend Plates		
	UL Types	1, 3, 4 and 13/NEMA 1, 3, 4 and 13 Die Cast Zinc End	closure [15]						
		Selector Switch (3 Pos Maintained)	_	KY1	KS43B	KA1	Hand-Off-Auto		
		Selector Switch (2 Pos Maintained)	_	KY1	KS11B	KA1	Off-On		
		Push Button (Momentary)	KYK11	KY1	KR1B	KA1	Start		
		Push Button (Momentary)	_	KY1	KR1R	KA1	Stop		
Da 0	1	Mushroom Button (Momentary)	KYK14	KY1	KR4R	KA1	Stop		
-		Push Button (with Lockout)	_	KY1	KR3R, K4	KA1	Stop		
		Break Glass Operator	KYK116	KY1	K15	KA1	To Stop—Break Glass		
		Break Glass Operator (Red Enclosure)	KYK117	KY1S1	K15	KA1	To Stop—Break Glass		
		2 Push Buttons (Lockout on Stop)	_	KY2	KR1B, KR3R, K4	KA1, KA1	Jog-Stop		
ð		2 Push Buttons	KYK218	KY2	KR1B, KR3R	KA1, KA1	On-Off		
		2 Push Buttons	KYK26	KY2	KR1B, KR1B	KA1, KA1	Open-Close		
0 0		2 Push Buttons	KYK25	KY2	KR1B, KR1B	KA1, KA1	Up-Down		
Type KYK31	2	2 Push Buttons	KYK21	KY2	KR1B, KR3R	KA1, KA1	Start-Stop		
		2 Push Buttons (with Sealed Contacts) [16]	—	KY2	KR1B, KR3R	KA51, KA51	Start-Stop		
		2 Push Buttons (Lockout on Stop)	KYK23	KY2	KR1B, KR3R, K4	KA1, KA1	Start-Stop		
		2 Push Buttons (Maintained/Interlocked)	KYK27	KY2	KR11GR	KA1	Start-Stop		
		1 Push Button, 1 Mushroom Button	_	KY2	KR1B, KR4R	KA1, KA1	Start-Stop		

[11] When ordering, add prefix 9001 to the catalog number.

[12] Only KN200 series legend plates will fit upright on these enclosures with their long axis vertical.

[13] Includes 1" NPT threaded conduit opening.

Uses 9001K metal operators and metal legend plates. [15]

[16] Control Station consists of components that are UL listed for use in Class 1, Division 2, Groups A, B, C, or D.

6

To be used with a standard 2 x 3 in. general purpose switch box. A 2.5 in. deep switch box should be used if two Type KA contact blocks are mounted side by side. If two Type KA contact blocks are mounted in tandem, a 3.5 in. deep box should be used. [14]



30 mm Enclosures

Class 9001 / Refer to Catalog 9001CT1104

www.se.com/us

Table 19.197 Assembled Control Stations (cont'd.)

	No of	On another Otal a and Existence	T		Con	sists of	
	Holes	Operator Style and Features	Туре	Enclosure	Operators	Contact Blocks	Legend Plates
		3 Push Buttons	KYK31	KY3	KR1B, KR1B, KR3R	KA1, KA1, KA1	Forward; Reverse; Stop
		3 Push Buttons (Lockout on Stop)	_	KY3	KR1B, KR1B, KR3R, K4	KA1, KA1, KA1	Forward; Reverse; Stop
		3 Push Buttons (With Sealed Contacts & Lockout on Stop) [17]	-	күз	KR1B, KR1B, KR3R, K4	KA51, KA51, KA51	Forward; Reverse; Stop
	3	3 Push Buttons	KYK33	KY3	KR1B, KR1B, KR3R	KA1, KA1, KA1	Open; Close; Stop
		Red 120v Pilot Light, 2 Push Buttons	KYK317	KY3	KP1R31, KR1B, KR3R	KA2, KA3	Start; Stop
		3 Push Buttons	KYK32	KY3	KR1B, KR1B, KR3R	KA1, KA1, KA1	Up; Down; Stop
- 55 -		3 Push Buttons (Lockout on Stop)	_	KY3	KR1B, KR1B, KR3R, K4	KA1, KA1, KA1	Up ; Down; Stop
° @ · ·	UL Types	s 1, 3, 4 and 13/NEMA 1, 3, 4 and 13—Stainless Steel ((304) [18]				
ALC: NO		Push Button (Momentary)	KYSS101	KYSS1	KR1B	KA1	Start
O.		Push Button (Momentary)	_	KYSS1	KR1B	KA3	Stop
	1	Selector Switch (2 Pos Maintained)	_	KYSS1	KS11B	KA1	Off-On
Same a		Selector Switch (3 Pos Maintained)	KYSS111	KYSS1	KS43B	KA1	Hand-Off-Auto
The second secon		2 Push Buttons	KYSS201	KYSS2	KR1B, KR3R	KA1, KA3	Start; Stop
Type KYSS300		2 Push Buttons (Lockout on Stop)	_	KYSS2	KR1B, KR3R, K5	KA1, KA3	Start; Stop
	2	2 Push Buttons (Maintained with Interlock)	_	KYSS2	KR11U	KA1, KA1	Start; Stop
		2 Push Buttons	_	KYSS2	KR1B, KR1B	KA1, KA1	Up; Down
	UL Types	1, 3, 4. 4X and 13/NEMA 1, 3, 4, 4X and 13—Stainless	s Steel (304) [19]	1		, ,	1.1.
		Push Button (Momentary)		KYSS1	SKR1B	KA1	Start
		Push Button (Momentary)	KYSK103	KYSS1	SKR3R	KA3	Stop
	1	Selector Switch (2 Pos Maintained)	_	KYSS1	SKS11B	KA1	Off-On
0		Selector Switch (3 Pos Maintained)	KYSK111	KYSS1	SKS43B	KA1	Hand-Off-Auto
		2 Push Buttons	KYSK201	KYSS2	SKR1B, SKR3R	KA1, KA3	Start; Stop
\odot		2 Push Buttons (Lockout on Stop)	_	KYSS2	SKR1B, SKR3R, K5	KA1, KA3	Start; Stop
Ä	2	2 Push Buttons (Maintained with Interlock)		KYSS2	SKR11U	KA1, KA1	Start; Stop
0		2 Push Buttons		KYSS2	SKR1B, SKR1B	KA1, KA1	Up; Down
	UI Types	5 1, 3, 4. 4X and 13/NEMA 1, 3, 4, 4X and 13—Polymer	ic (Plastic) [19]	111002	olarib, olarib	1011,1011	op, 50111
	01.)pos	Selector Switch (3 Pos Maintained)	SKY111	SKY1	SKS43B	KA1	Hand-Off-Auto
Type SKY201		Selector Switch (2 Pos Maintained)		SKY1	SKS11B	KA1	Off-On
	1	Selector Switch (2 Pos Maintained) Contacts) [17]	_	SKY1	SKS11B	KA51	Off-On
		Push Button (with Lockout)	SKY105	SKY1	SKR3R, K5	KA3	Stop
	1	2 Push Buttons	SKY201	SKY2	SKR1B, SKR3R	KA1, KA3	Start-Stop
		2 Push Buttons (Lockout on Stop)	SKY203	SKY2	SKR1B, SKR1R, K5	KA1, KA3	Start-Stop
	2	2 Push Buttons (With Sealed Contacts) [17]	_	SKY2	SKR1B, SKR3R	KA51, KA51	Start-Stop
	-	2 Push Buttons (With Sealed Contacts) [17]	_	SKY2	SKR1B, SKR3R	KA51, KA51	On-Off
		2 Push Buttons		SKY2	SKR1B, SKR1B	KA1, KA1	Up-Down
		3 Push Buttons	SKY302	SKY3	SKR1B, SKR1B, SKR3R	KA1, KA1, KA3	Up-Down-Stop
	3	3 Push Buttons	_	SKY3	SKR1B, SKR1B, SKR3R	KA1, KA1, KA3	Open-Close-Stop
	Ŭ	Red 120v Pilot Light, 2 Push Buttons		SKY3	SKP1R31, SKR1B, SKR3R	KA1, KA3	Start-Stop
	III Types	1, 3, 4 and 13/NEMA 1, 3, 4 and 13 Die Cast Zinc End	losures with Inte			1011,1010	otart otop
(1 0)	01.jpcc	Guarded Enclosure (grey) with 120V Red LED Pilot Light	_	KYG1	KP38LRR9	_	order separately
	1	Guarded Enclosure (grey) with 120V Green LED Pilot Light	_	KYG1	KP38LGG9	-	order separately
Type KYG1Y2		Guarded Enclosure (Yellow Cover) with Red Push- Pull Mushroom	KYG1Y1 [20]	KYG1Y	KR9R	КАЗ	Push to Stop/ Pull to Start
		Guarded Enclosure (Yellow Cover) with Red Turn-To Release Mushroom	KYG1Y2 [20]	KYG1Y	KR16	KA3	Emergency Stop

[17] Control Station consists of components that are UL listed for use in Class 1, Division 2, Groups A, B, C, or D.
[18] Uses 9001K metal operators and plastic legend plates.
[19] Uses 9001SK plastic operators and plastic legend plates.
[20] Includes 1" NPT threaded conduit opening.

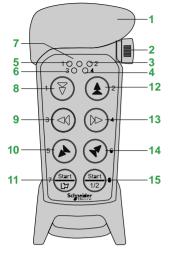
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Wireless Remote Control System

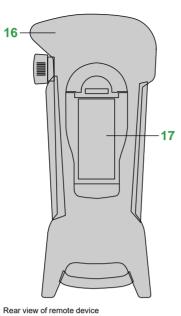
Refer to Catalog DIA5ED2140103EN



Harmony® eXLhoist



Front view of ZART8LS remote device

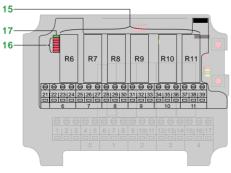


Remote Contro	Remote Control Device Description				
Front View					
1	Rubber cover				
2	Stop button				
3	LED 2 (red)				
4	LED 4 (red)				
5	LED 1 (red)				
6	LED 3 (red)				
7	Top LED (red, green)				
8	Button 1				
9	Button 3				
10	Button 5				
11	Button 7–left start button				
12	Button 2				
13	Button 4				
14	Button 6				
15	Button 8–right start button				
Rear View					
16	Rubber protection cover				
17	Battery pack				

Front view of base station

6 -9 1 7 8-٠Ó -10 14 5 12 11 R4 R2 4 R5 R1 R3 13

Internal board view of base station



Expansion board view of base station

Base Stataion				
Front View				
1	4 x Ø5 mm/0.20 in. holes for standard mounting on a support			
2	4 x screws to maintain the cover of the receiver			
3	2 x cable glands for cables Ø 613 mm/ 0.250.50 in.			
Internal Boar	rd View			
4 Stop relays				
5 Relays R1R4				
6	Relay LEDs (red)			
7	Stop relay LED (red)			
8	Power LED (yellow)			
9	Radio module			
10	Function button (cancel)			
11	Select button (OK)			
12	Function LEDs (8 = red, 9 = yellow, 10 = green, 11 = orange)			
13	Terminal block for input power			
14	PLd (Performance Level d) status LED			
Expansion B	oard View			
15	Relays R6R11			
16	Relay LEDs (red)			
17	Communication LED (green)			

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Wireless Remote Control System

Refer to Catalog DIA5ED2140103EN

ZART8LS

ZARC701



Remote Control Device and Base Station Table 19.198: Remote Control Device

	Charact	teristics	Refe	rence	Weight
Description	Motion push buttons	Auxiliary push buttons	Standard	MBC[1]	kg/lb
With LEDs	6	1	ZART8LS	_	0.300/0.661

Table 19.199: Base Station

Description	Characteristics		Power	Refer	Weight	
Description	Outputs	Inputs	Supply (V)	Standard	MBC[1]	kg/Īb
Wired connection cable gland	10 relays + 2 safety relays	_	\sim 48–240	ZARB10WS	_	0.430/ 0.947
Wired connection (pre-wired with 1.5 m/4.92 ft cable)	10 relays + 2 safety relays	-	∼48–240	ZARB10WSP		0.880/ 1.940

Accessories

Table 19.200: Accessories

Description	Characteristics	Reference	Weight kg/lb
Multi-charger power supply 6W, 5 Vdc /1.2 A (for ZARC702 Li-lon rechargeable battery only)	\sim 100–240 V power supply	ZARC701	0.100/0.220
Li-lon rechargeable battery with battery table charger	83 x 46 mm/ 3.268 x 1.811 in.	ZARC702	0.050/0.110
Battery pack for 3 x AAA (batteries not included)	83 x 46 mm/ 3.268 x 1.811 in.	ZARC704	0.020/0.044
Battery table charger, (for ZARC702 Li-lon rechargeable battery only)	5 Vdc power supply	ZARC703	0.120/0.265
Front label cover for ZART8LS push buttons	120 x 60 mm/ 4.724 x 2.362 in.	ZARC705	0.005/0.011
Rubber protection cover for ZART8LS	Rubber material, black	ZARC706	0.107/0.24
Shoulder belt to support ZART8LS	Nylon material, black	ZARC707	0.130/0.29



ZARC702



ZARC703

ZARTxx + ZARB05WSP



Refer to Catalog DIA5ED2140103EN



Table 19.201: Transmitter — Pocket Remote

Description	Battery	Number of Pushbuttons	Reference	Weight kg/lb		
		3	ZART03			
Cinala atan	2 x 1.5 V AAA/LR06 Alkaline <i>[2]</i>	4	ZART04			
Single-step pushbutton		6	ZART06	0.135/0.298		
pushbullon		8	ZART08			
		10	ZART10			

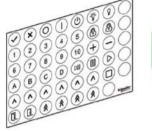
Table 19.202: Receiver — Pocket Remote

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Description	Relay outputs	Power supply V	Reference	Weight kg/lb
Wired connection	5 relays	12–24	ZARB05WSP	
(pre-wired with 1.5 m/4.92 ft cable)	11 relays	12–24	ZARB11WSP	0.400/0.882

Table 19.203: Accessories — Pocket Remote

Description	For use with	Sold in lots of [3]	Reference	Weight kg/lb
Customizable label kit for remote transmitter66 x 114 mm/2.60 x 4.49 in.	ZART03, ZART04, ZART06, ZART08, ZART10	1	ZARC620 [4]	0.135/0.298



ZARC620

[2] [3] [4] 2 batteries are included in packaging.

Pack consists of 5 sheets of label kit. 1 polyester base layer for graphic printing, 1 set of unique legends.

19-80



Type BW Pendant Stations and Accessories

This pre-assembled, two-button station now comes complete with internal and external strain relief. Oversized finger grips on the rear of the enclosure make it easy to grip and operate.

- Well suited for standard hoist applications
- Push button legend inserts
- Field-installable mushroom button
- Full cover gasket, to exclude harmful contaminants

Table 19.204: BW90 and BW100 Pendant Stations - with cord connector and strain relief

Description		Logond Incort	Legend Insert Mechanical		Enclosure Color		Replacement Interior [5]	
		Markings		Yellow	Red	Contact Symbol	9001 Type	Contact Symbol
		Up-Down	Yes	BW92Y	-	146	BOC368	146
- E		Forward-Reverse	Yes	BW93Y	_	146	BOC368	146
		On-Off [6]	Yes	BW94Y	-	10	-	147
2		Start-Stop	No	BW95Y	-	145	—	25
- 	Single Speed	Start-Stop [6]	Yes	BW96Y	-	10	—	147
	Single Speed	On-Off [6]	No	_	_	146	_	25
		Up-Down	Yes	BW98Y	_	100	_	_
		without Inserts	Yes	BW90YU	_	147	_	25
		without Inserts	No	BW91YU	-	25	_	25
(CON)		without Inserts [6]	Yes	_	_	147	_	147
	Two Crossed	without Inserts	Yes	BW100YU	BW100RU	150	_	150
BW90 / BW100	Two Speed	Up-Down	Yes	BW102Y	-	150	_	150

Table 19.205: Hanger Brackets



Table 19.207: Interchangeable Legend Inserts for Type BW Pendant Stations[7]

	Marking	Туре
-	Forward	B255
	Reverse	B256
	Up	B253
1	Down	B254

Table 19.208: Replacement Enclosures

Description	Color	Туре
5	Yellow	BWRY
Box & Cover with 4 screws	Red	BWRR
with 4 screws	Black	BWRB

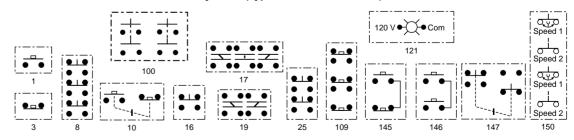
Table 19.206: Strain Relief Replacement



Table 19.209: Electrical Contact Ratings [8]

	AC—NEMA B600						DC-NEMA P	600	
	Inductive 35% Power Factor			Resistive 75% Power Factor		Inductive and Resistive			
Volts	Ma	ake	Bre	eak	Continuous	Make, Break and Continuous Carrying Amperes	Volts	Make and Break	Continuous
	Α	VA	А	VA	Carrying Amperes				Carrying Amperes
120 240 480 600	30.5 15 7.5	3600 3600 3600 3600	3.75 1.5 .75	360 360 360 360	5 5 5 5	5 5 5	120 240 600	1.1 0.55 0.2	5 5 5

Contact Symbols (Type BW Pendant Staions)



[5] Includes gasket

[6] Maintained Contact

[7] Order must specify a quantity of 10 or multiples of 10.

[8] OSHA Regulation, Section 1910.70, Overhead and Gantry Cranes, limits the voltage of pendant push buttons to 150 Vac or 300 Vdc.

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XAC Standard Duty Pistol Grips,

Enclosures, Contact Blocks



Refer to Catalog 9001CT1001

XAC Pistol Grip Stations and General Purpose Pendants

XAC pendant stations are designed for standard- or medium-duty control circuit applications.

- · Single- or two-speed versions
- Double insulated
- · Shock and corrosion resistant
- 2, 4, 6, 8, 12 element versions
- · Ease of operation

Table 19.210: Pistol Grip Stations

Description	Omende	Fun	Catalog Number	
Description	Speeds	1 speed	2 speed	Catalog Number
1 N.O. contact per operator 2 Mechanically interlocked operators	1	‡		XACA201 [9]
2 N.O. (staggered) contacts per operator 2 Mechanically interlocked operators	2			XACA207 [9]
1 N.O. + 1 N.C. 2 Mechanically interlocked operators	1	\$		XACA205 [9]
1 N.O. contact per direction 1 Mechanically interlocked 2 way toggle	1	¥.		XACD21A0101 [10]
NOTE: Legends are required to achieve	ve NEMA4 rati	ng.	•	

Table 19.211: General Purpose Pendants[11][12]

Enclosures	Catalog Number
2 hole enclosure	XACA02H7
3 hole enclosure	XACA03H7
4 hole enclosure	XACA04H7
6 hole enclosure	XACA06H7
8 hole enclosure	XACA08H7
12 hole enclosure	XACA12H7

To place a custom pendant order, use the worksheet Type XACA Worksheet, page 19-83 as a guide. Orders must be placed through the Product Selector in Quote to Cash. There is a 10% charge for assembly.

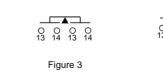
XAC Contact Blocks

Table 19.212: Contact Blocks for Operators in Cover

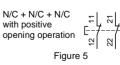
Description	Wiring Diagram	Catalog Number
1 N.O./spring return/1 speed	_	ZB2BE101
1 N.C./spring return/1 speed	—	ZB2BE102
1 N.O. early close & 1 N.C. & 1 N.O./spring return/2 speed	Figure 1	XENG1191
1 N.C. & 2 N.O./spring return/1 speed	Figure 2	XENG1491
1 N.O. & 1 N.O. latching/1 speed/interlocked	Figure 3	XENG3781
1 N.O. & 1 N.C. latching/1 speed/interlocked	Figure 4	XENG3791
3 N.C.—all 반 direct acting	Figure 5	XENT1192

Table 19.213: Contact Blocks for Operators in Base of Enclosure [13]

Description	Catalog Number
1 N.O./1 speed	XACS101
1 N.C./1 speed	XACS102
2 N.C./1 speed	XACS104



0 12 Figure 4



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XACA06

7B2BE10

XENG1191

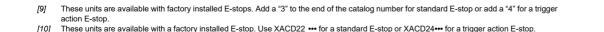


XACA03 with operators

XENG37

XACA201

XACS10



130 014

210 022

Т

330 034

Figure 2

These units are available with a factory installed E-stop. Use XACD22 ••• for a standard E-stop or XACD24••• for a trigger action E-stop.

[11] Standard enclosures include internal mounting plate, cable sleeve for 8 to 26 mm, internal cable clamp, suspension ring and cable tie.

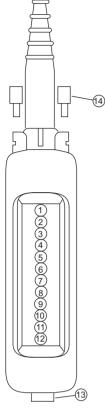
For ordering information on custom built XACA pendants, visit our website at www.Schneider-Electric.us. [12]

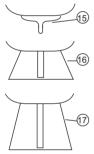
[13] Cannot be used with XACA03 pendant.



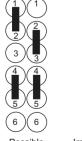
Custom built pendant stations

1





Mechanical Interlock (XACA009)



Possible Imp Combinations Comb

Impossible Combinations

6

	Catalog number of enclosure	XACA		
Functions (optional)	Mechanical interlock (draw a vertical line between the 2 units to be interlocked [▲])	Legends	Contact blocks and pilot light bodies	Push button Pilot light or Blanking plug
	1			_
	2			-
	3			_
	4			_
	5			-
	6			-
	7			-
	8			-
	9			_
	10			-
	11			-
	12			-

Type XACA Worksheet

XACA Order Guide Instructions

Use this worksheet to assist in component selection. Custom orders for XACA pendant stations must be placed through the Product Selector in Quote to Cash. There is a 10% charge for assembly.

Determine the number of operators needed, then choose an enclosure with a corresponding number of holes.

Mechanical interlock XACA009

Number of XACA009 required

Unit mounted in base of station (facing downwards)

13

Attachment	is	
Position	Туре	Catalog No.
14	Adapters for self-supporting cable type BBAP (available only with cable sleeve Ø8–26 mm)	XACB961
15	Lower support ring	XACA971
16	Protective guard for base mounted selector switch or 40 mm emergency-stop push button	XACA982
17	Protective guard for key switch	XACA983

XVB—70 mm Diameter (2.75 inches)

Refer to Catalog DIA5ED2130801EN





XVBL3•

XVBL4B•

XVB 70 mm Diameter Beacons
Table 19.214: XVB Beacons with Steady Light

Light Source and Voltage Color Catalog Number Description Green XVBL33 Bulb (10 W max) not included 250 V max (must order bulb separately [1]) Complete unit, includes: 1 lens unit 1 base unit (direct or tube mounting) Red XVBL34 Amber XVBL35 Blue XVBL36 Clear XVBL37 Yellow XVBL38

Table 19.215: XVB Beacons with Flashing Light (one flash per second)

Description	Light Source and Voltage	Color	Catalog Number
	Bulb (10 W max)	Green	XVBL4B3
	not included	Red	XVBL4B4
Complete unit, includes: 1 lens unit	24 Vac 24–48 Vdc (must order bulb separately [1])	Amber	XVBL4B5
1 base unit (direct or tube mounting)	Bulb (10 W max) not included	Red	XVBL4M4
(abo mounting)		Amber	XVBL4M5
	48–230 Vac (must order bulb separately [1])	Yellow	XVBL4M8

Table 19.216: XVB Beacons with 10 Joule Strobe (2.75 in./70 mm diameter) [2]

Description	Light Source and Voltage	Color	Catalog Number [3]
	Strobe 24 Vac/Vdc (includes bulb)	Red	XVBL8B4
		Amber	XVBL8B5
		Blue	XVBL8B6
Complete unit, includes: 1 lens unit		Clear	XVBL8B7
1 base unit (direct or		Yellow	XVBL8B8
tube mounting)	Strobe 120 Vac (includes bulb)	Red	XVBL8G4
37		Amber	XVBL8G5
		Blue	XVBL8G6
		Yellow	XVBL8G8
NOTE: There are no repla	cement lenses for strobes.		





XVBL8B• 10 Joule

<mark>/</mark>9

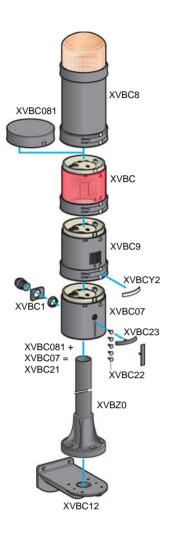
[1] [2] [3] For bulbs, see Table 19.222 XVB Accessories, page 19-86.

Important: Discharge tube elements are not suitable for continuous-operation signaling due to temperature rise caused by the discharge tube.

For 5 Joule units, specify XVBL6., instead of XVBL8.



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XVB 70 mm Components

Table 19.217: XVB Lens Units for Steady Light

Description	Light Source and Voltage	Color	Catalog Number
	Bulb (10 W max) not included 250 Vac/Vdc max (must order bulb separately <i>[4]</i>)	Green	XVBC33
		Red	XVBC34
Illuminated lana unit		Orange	XVBC35
Illuminated lens unit		Blue	XVBC36
		Clear	XVBC37
		Yellow	XVBC38

Table 19.218: XVB Lens Unit for Flashing Light

Description	Light Source and Voltage	Color	Catalog Number
	Bulb (10 W max)	Green	XVBC4B3
	not included	Red	XVBC4B4
	24 Vac 24–48 Vdc	Orange	XVBC4B5
	(must order bulb	Blue	XVBC4B6
lluminated lens unit	separately [4])	Yellow	XVBC4B8
numinated iens unit	Bulb (10 W max) not included	Green	XVBC4M3
		Red	XVBC4M4
	48–230 Vac	Orange	XVBC4M5
	(must order bulb	Blue	XVBC4M6
	separately [4])	Yellow	XVBC4M8

NOTE: There are no replacement lenses units for the XVBC8 •• strobes.

Table 19.219: XVB Lens Units with 10 Joule Strobe

Description	Light Source and Voltage	Color	Catalog Number [5]
		Red	XVBC8B4
	Strobe 24 Vac/Vdc (includes bulb) Strobe 120 Vac (includes bulb)	Orange	XVBC8B5
		Blue	XVBC8B6
		Clear	XVBC8B7
Lens unti with integral 10 Joule strobe		Yellow	XVBC8B8
		Red	XVBC8G4
		Orange	XVBC8G5
		Blue	XVBC8G6
		Yellow	XVBC8G8

Table 19.220: Audible Sounder Units

Description	Supply Voltage	Catalog Number
Sounder unit 90 dB at 1 m	12–48 Vac/Vdc	XVBC9B
Adjustable from 75–90 dB Continuous or intermittent modes	120–230 Vac	XVBC9M

Table 19.221: Base Units + Cover

Description	Catalog Number
Base unit + cover for direct or tube mounting, bottom or side cable entry (includes gasket)	XVBC21

For bulbs, see Table 19.222 XVB Accessories, page 19-86. [4]

[5] For 5 Joule units, specify XVBC6 ..., instead of XVBC8 ..

XVB—70 mm Diameter (2.75 inches)

Refer to Catalog DIA5ED2130801EN

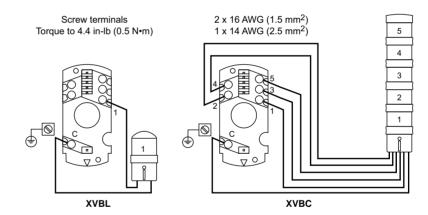


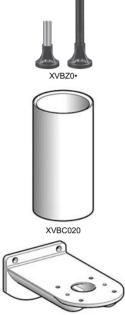
XVB 70 mm Accessories

Table 19.222: XVB Accessories

Description	Char	racteristics	Catalog Number		
Description	in.	mm	Catalog Number		
Black tube with	4.72	120	XVBZ02	XVBZ02A [6]	
integral black plastic	15.75	400	XVBZ03	_	
mounting base (includes gasket)	31.50	800	XVBZ04	_	
Support tube concealment cover	3.94	100	XVE	3C020	
ncandescent bulbs	24 Vac/Vdc		DL	1BLB	
bayonet type BA	120 Vac/Vdc		DL	1BLG	
15d, 10 Watts	230 Vac/Vdc		DL	1BLM	
Incandescent bulbs	24 Vac/Vdc		DL	1BEB	
bayonet type BA	120 Vac/Vdc		DL1	1BEG	
15d, 7 Watts	230 Vac/Vdc		DL1	IBEM	
		White	DL1BDB1		
	24 Vac/Vdc	Green	DL1BDB3		
		Red	DL1BDB4		
		Blue	DL1BDB6		
Steady-On LED		Yellow	DL1BDB8		
bulbs		Amber	DL1BDB5		
bayonet type BA 15d		White	DL1	BDG1	
(sold as single) [7]		Green	DL1BDG3		
	120 Vac	Red	DL1BDG4		
		Blue	DL1BDG6		
		Yellow	DL1BDG8		
		Amber	DL1BDG5		
		White	DL1	BKB1	
	24 Vac/Vdc	Green	DL1BKB3		
Flashing LED bulbs		Red	DL1BKB4		
		Amber		BKB5	
	120 Vac	Red	DL1	BKG4	
Adapter for side entry through base unit	With CM12 (p. 13.5) cable gland, for cable size of 0.4 to 0.55 in. (10 to 14 mm) diameter		XVI	BC14	
Conduit adapter	1/2 in. NPT (for cus	tomer supplied tubing)	XV	BC00	

Wiring Diagrams, Base Units





XVBC12

[6] Aluminum tube. [7] For 240 Vac, rep

For 240 Vac, replace the B or G in the catalog number with M—for example, DL1BDM1. For flashing LEDs, refer to catalog 9001CT0001.

19-86



XVC4B5



XVC Tower Lights and Accessories

Table 19.223: XVC4 Tower Lights — 40 mm diameter (1.5 inches)

	Light source		Signalin	g colors [8]	Catalog
Description	(included)	Voltage	Steady	Flashing	Number
With support tube mo	ounting				
			R	-	XVC4B1
			R, O	-	XVC4B2
	LED for steady	24 Vdc	R, O, G	-	XVC4B3
Without buzzer	light only		R, O, G, B	-	XVC4B4
	5 ,		R, O, G, B, C	-	XVC4B5
		100-240 Vac	R, O, G	-	XVC4M3
			R	R	XVC4B15S
			R, O	R, 0	XVC4B25S
Mathe became a		24 Vdc	R, O, G	R, O, G	XVC4B35S
With buzzer + flashing light	LED for steady or flashing light [9]		R, O, G, B	R, O, G, B	XVC4B45S
· naoning ign	indoning light [0]		R, O, G, B, C	R, O, G, B, C	XVC4B55S
		100-240	R	R	XVC4M15S
		Vac	R, O, G	R, O, G	XVC4M35S
For base mounting					
			R	-	XVC4B1K
			R, O	-	XVC4B2K
Without buzzer	LED for steady light only	24 Vdc	R, O, G	-	XVC4B3K
	ingrit only		R, O, G, B	-	XVC4B4K
			R, O, G, B, C	-	XVC4B5K

Table 19.224: Accessories for XVC4

Description	Diameter mm	Minimum height to be added mm	Catalog Number
Die-cast metal mounting base (for use with XVC4•• and XVC4••5S with support tube)	90	32	XVCZ11

Table 19.225: XVC Tower Lights — 100 mm diameter (4 inches)

Description	Light source	Voltage	Signaling colors [8]		Catalog	
Description	(included)	Vdc	Steady	Flashing	Number	
For base mounting						
	LED for steady or flashing light [9]	24	R	R	XVC1B1K	
Without buzzer			R, O, G	R, O, G	XVC1B3K	
With flashing light		100-240	R, O, G	R, O, G	XVC1M3K	
		Vac	R, O, G, B, C	R, O, G, B, C	XVC1M5K	
With buzzer + flashing light	LED for steady or flashing light [9]	24	R, O, G	R, O, G	XVC1B3SK	

Table 19.226: Accessories for XVC1

Description	Diameter mm	Height mm	Catalog Number			
Mount tube and base	140	300	XVCZ13			
L-shape mount bracket	-	—	XVCZ23			



XVCZ11

XVC4B35S

XVCZ13



XVC1B5K XVC1B5SK

Signaling colors: R = Red, G = Green, O = Orange, B = Blue, C = Clear. The colors are listed in the mounting order of the illuminated units from top to bottom. [8] [9]

Flashing light function selected by wiring or programming.

Tower Lights and Beacons





XVC, 40 mm, 60 mm, and 100 mm Diameter Refer to Catalog DIA5ED2130801EN

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Table 19.227: XVC6 Tower Lights, 60 mm diameter (2.375 inches)

	Table 19.227: XVC6 Tower Lights, 60 mm diameter (2.375 inches)					
Description	Light source	Voltage	Signaling colors [10]		Catalog	
Beschption	(included)	Tonage	Steady	Flashing	Number	
With support tube	mounting					
			R	-	XVC6B1	
		24 Vdc	R, O, G	-	XVC6B3	
Without buzzer	LED for steady	24 Vuc	R, O, G, B	-	XVC6B4	
without buzzer	light only		R, O, G, B, C	-	XVC6B5	
		100-240	R, O, G	-	XVC6M3	
		Vac	R, O, G, B	-	XVC6M4	
		24 Vdc	R, O, G	R, O, G	XVC6B35S	
			R, O, G, B	R, O, G, B	XVC6B45S	
With buzzer	LED for steady or		R, O, G, B, C	R, O, G, B, C	XVC6B55S	
+ flashing light	flashing light [11]		R	R	XVC6M15S	
		100-240 Vac	R, O, G	R, O, G	XVC6M35S	
		vac	R, O, G, B	R, O, G, B	XVC 6M45S	
For base mounting	9					
	LED for steady	24 Vdc	R, O, G	-	XVC6B3K	
Without buzzer	light only	100-240 Vac	R, O, G	-	XVC6M3K	
			R	R	XVC6B15SK	
			R, O	R, O	XVC6B25SK	
		24 Vdc	R, O, G	R, O, G	XVC 6B35SK	
14/34 h			R, O, G, B	R, O, G, B	XVC6B45SK	
With buzzer + flashing light	LED for steady or flashing light [11]		R, O, G, B, C	R, O, G, B, C	XVC6B55SK	
	indoning light [11]		R	R	XVC6M15SK	
		100-240	R, O, G	R, O, G	XVC6M35SK	
		Vac	R, O, G, B	R, O, G, B	XVC6M45SK	
			R, O, G, B, C	R, O, G, B, C	XVC6M55SK	

Table 19.228: Accessories for XVC6

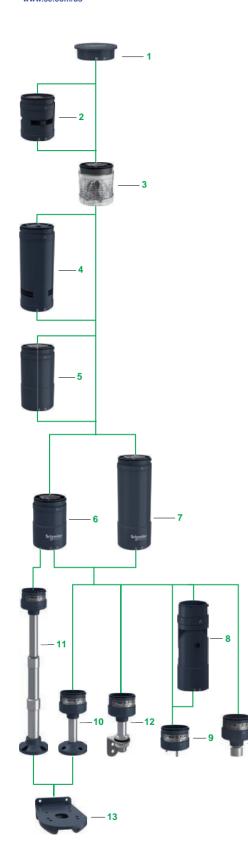
Description	Diame- ter mm	Minimum height to be added mm	Catalog Number
Die-cast metal mounting base for XVC6B• and XVC6B•5S with support tube.	100	30	XVCZ02
Stamped metal mounting base for XVC6B• K and XVC6B•5SK	84	21.6	XVCZ12





[10] Signaling colors: R = Red, G = Green, O = Orange, B = Blue, C = Clear. The colors are listed in the mounting order of the illuminated units from top to bottom.
 [11] Flashing light function selected by wiring or programming.





Tower Lights For Customer Assembly (up to 5 units)

3.2 or rotating) 3.3 Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flashi or rotating) [14][15] 4 Sound units 4.1 Sound units 4.2 Sound unit 5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	Tower Lig	ghts
2 Buzzer unit (black or silver)[12] 3 Illuminated units:[13] 3.1 LED illuminated units with steady or blinking light signaling (colors: green, red, orange,blue, white, or yellow) 3.2 Multi-color LED unit (colors: green, red, orange, blue, white, or yellow. Patterns: steady, blinking, flash or rotating) [14][15] 3.3 Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flash or rotating) [14][15] 4 Sound units 4.1 Sound unit 4.2 Sound unit 5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	The XVU	tower lights are customer assembled products comprising:
3 Illuminated units:[13] 3.1 LED illuminated units with steady or blinking light signaling (colors: green, red, orange, blue, white, or yellow) 3.2 Multi-color LED unit (colors: green, red, orange, blue, white, or yellow. Patterns: steady, blinking, flash or rotating) 3.3 Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flashi or rotating) [14][15] 4 Sound units 4.1 Sound units 4.2 Sound unit 4.2 Sound unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, DC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	1	Top cover (black or silver)
3.1 LED illuminated units with steady or blinking light signaling (colors: green, red, orange,blue, white, or yellow) 3.2 Multi-color LED unit (colors: green, red, orange, blue, white, or yellow). Patterns: steady, blinking, flash or rotating) 3.3 Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flash or rotating) [14][15] 4 Sound units 4.1 Sound unit 4.2 Sound unit 4.3 Sound unit 6 Base unit, DC (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 mn/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	2	Buzzer unit (black or silver)[12]
3.1 yellow) 3.2 Multi-color LED unit (colors: green, red, orange, blue, white, or yellow. Patterns: steady, blinking, flash or rotating) 3.3 Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flash or rotating) [14][15] 4 Sound units 4.1 Sound unit, plus signal [15] 5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	3	Illuminated units:[13]
3.2 or rotating) 3.3 Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flashi or rotating) [14][15] 4 Sound units 4.1 Sound unit 4.2 Sound unit 4.2 Sound unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, DC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	3.1	LED illuminated units with steady or blinking light signaling (colors: green, red, orange,blue, white, or yellow)
3.3 or rotating) [14][15] 4 Sound units 4.1 Sound unit, plus signal [15] 5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/37.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	3.2	Multi-color LED unit (colors: green, red, orange, blue, white, or yellow. Patterns: steady, blinking, flashing, or rotating)
4.1 Sound unit 4.2 Sound unit, plus signal [15] 5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	3.3	Pulse signal multi-color LED unit (colors: green, red, orange, or blue. Patterns: steady, blinking, flashing, or rotating) [14][15]
4.2 Sound unit, plus signal [15] 5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 ml/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver)	4	Sound units
5 Extender unit (black or silver) 6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 m/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver) 10 silver for 100 mm pole, and black for 400 mm and 800 mm pole)	4.1	Sound unit
6 Base unit, DC (black or silver) 7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver) 10 silver for 100 mm pole, and black for 400 mm and 800 mm pole)	4.2	Sound unit, plus signal [15]
7 Base unit, AC (black or silver) 8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver for 100 mm pole, and black for 400 mm and 800 mm pole)	5	Extender unit (black or silver)
8 Flexible mounting unit 9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black isilver for 100 mm pole, and black for 400 mm and 800 mm pole)	6	Base unit, DC (black or silver)
9 Direct mounting plate (black or silver) 10 100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black isilver for 100 mm pole, and black for 400 mm and 800 mm pole)	7	Base unit, AC (black or silver)
10 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (blac silver for 100 mm pole, and black for 400 mm and 800 mm pole)	8	Flexible mounting unit
10 silver for 100 mm pole, and black for 400 mm and 800 mm pole)	9	Direct mounting plate (black or silver)
	10	100 mm/3.927 in., 400 mm/15.748 in., or 800 mm/31.496 in. pole with integrated mounting plate (black or silver for 100 mm pole, and black for 400 mm and 800 mm pole)
11 Adjustable height pole from 210 to 385 mm/8.268 to 15.157 in.[16] with integrated mounting plate	11	Adjustable height pole from 210 to 385 mm/8.268 to 15.157 in.[16] with integrated mounting plate
12 100 mm/3.927 in., 250 mm/9.842 in., or 400 mm/15.748 in. pole with metal bracket (black)	12	100 mm/3.927 in., 250 mm/9.842 in., or 400 mm/15.748 in. pole with metal bracket (black)
13 Mounting plate for use on vertical support (black)[17]	13	Mounting plate for use on vertical support (black)[17]
14 1/2" NPT conduit adapter for customer supplied tubing	14	1/2" NPT conduit adapter for customer supplied tubing

Composition

- XVU tower lights are customer assembled signaling units that are mounted vertically or horizontally with the support of a mounting accessory.
- Maximum of 5 illuminated units or 4 illuminated units with 1 audible unit can be assembled. The illuminated or audible unit[18], stack vertically.
- With the indicator marks on these units they can be easily assembled.
- Electrical connections between each unit are made automatically as they are mechanically assembled.
- The signaling units are identical in size and their positioning is unrestricted.

Mounting

- Horizontal mounting: Fixed into support panel with direct mounting plate, poles or adjustable height pole with integrated mounting plate
- Vertical mounting: Fixed into support panel with mounting plate using pole with metal bracket or mounting plate for use on vertical support
- Horizontal or vertical mounting: Fixed into support panel with mounting plate using flexible mounting unit
- Mounting plate with aluminium 1/2" NPT adapter.

Cabling

By means of spring cage connection terminal block incorporated in mounting unit (Direct mounting plate, pole with plate, adjustment pole)

- [12] Always mounted on the top .
- [13] Up to 5 LED illuminated units without sound unit; Up to 4 LED illuminated units with sound unit .
- [14] Pulse signal multi-color LED unit cannot be combined with standard sound unit (XVUC9V).
- [15] Up to 4 illuminated and sound units when pulse signal technology is used.
- [16] Only for DC body unit.
- [17] Compatible with XVUZ02, XVUZ02Q, XVUZ03, XVUZ400, XVUZ800, and XVUZ05.
- [18] Sound unit cannot be combined with buzzer unit at the same time.

Signaling Units Refer to Catalog DIA5ED2130801EN



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Illuminated Units, High Flash LED Units

Description	Signaling	Charac	teristics			
Description	Туре	Voltage	Power	Color	Reference	Weight kg/lb
		24 V	2.5 W	Green	XVUC23	0.064/0.141
		24 V	2.0 W	Red	XVUC24	0.064/0.141
	Steady	24 V	2.0 W	Orange	XVUC25	0.064/0.141
	Sleady	24 V	2.5 W	Blue	XVUC26	0.064/0.141
		24 V	2.5 W	White	XVUC27	0.064/0.141
High brightness		24 V	2.5 W	Yellow	XVUC28	0.064/0.141
LED Units	Blinking	24 V	1.2 W	Green	XVUC43	0.064/0.141
LED OING		24 V	0.9 W	Red	XVUC44	0.064/0.141
		24 V	0.9 W	Orange	XVUC45	0.064/0.141
		24 V	1.2 W	Blue	XVUC46	0.064/0.141
		24 V	1.2 W	White	XVUC47	0.064/0.141
		24 V	1.2 W	Yellow	XVUC48	0.064/0.141
Multi-color LED unit	Steady/ blinking/ flashing/ rotating	24 V	1.5 W	Multi-color (green, red, orange, blue, white, and yellow)	XVUC29	0.064/0.141
Pulse signal Multi-color LED unit [19]	Steady/ blinking/ flashing/ rotating	24 V	1.7 W	Multi-color (green, red, orange, and blue)	XVUC29P	0.069/0.152







XVUC6 XVUC46







XVUC29 XVUC29P



Signaling Units Refer to Catalog DIA5ED2130801EN

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XVUC9SQ



XVUC9V





XVUC21M

Audible and Base Units

	Charac	teristics	Oslan	Defenses	
Description	Voltage	Power	Color	Reference	Weight kg/lb
Buzzer, adjustable 7085 dB at			Black	XVUC9S	0.077/0.170
1 m/3.281 ft (4 configurations of audible signal)	24 V	1.7 W	Silver	XVUC9SQ	0.077/0.170
Sound, adjustable 086 dB at 1m/3.281 ft (4 channels)	24 V	1.7 W	Black	XVUC9V	0.217/0.480
Sound unit, pulse signal 086 dB at 1m/3.281 ft (16 channels)[20]	24 V	4.1 W	Black	XVUC9VP	0.219/0.483

Tower Lights and Beacons

Base Units: IP 65							
Description	Voltage	Color	Reference	Weight kg/lb			
	24 Vac/Vdc	Black	XVUC21B	0.110/0.243			
	24 vac/vdc	Silver	XVUC21BQ	0.110/0.243			
Base unit with top cover[21]	100 10 010 1/00	Black	XVUC21M [22]	0.235/0.518			
	100 to 240 Vac	Black	XVUC21MP [23]	0.235/0.518			

[20]	1 signal wire, 2 power wires.	Adaptable for both NPN and PNP.	16 channels can be controlled by PLC.
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Direct mounting plate XVUZ01• needed for direct mounting. NPN type. PNP type.

[21] [22] [23]

Signaling Units Refer to Catalog DIA5ED2130801EN



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Accessories

Accessories					
Description	Voltage	Height of aluminum pole mm/in.	Color	Reference	Weight kg/lb
Body extender	24 Vac/Vdc	_	Black	XVUC020	0.093/0.205
				XVUZ01 [24]	0.063/0.139
Direct Mounting Blate			Black	XVUZ03 [25]	0.063/0.139
Direct Mounting Plate		_		XVUZ04 [26]	0.063/0.139
			Silver	XVUZ01Q [25]	0.063/0.139
		100/3.927	Black	XVUZ02	0.132/0.291
Mounting plate with aluminum		100/3.927	Silver	XVUZ02Q	0.132/0.291
pole		400/15.748	Black	XVUZ400	0.236/0.520
		800/31.496	Black	XVUZ800	0.430/0.945
Mounting plate with adjustable height aluminum pole[27]		210 to 385/ 8.268 to 15.157	Black	XVUZ05	0.253/0.558
Flexible mounting unit for use on horizontal or vertical support, IP 55		_	Black	XVUZ06	0.193/0.425
		100/3.927	Black	XVUZ100T	0.220/0.485
Metal bracket with aluminum pole, IP42		250/9.842	Black	XVUZ250T	0.240/0.529
poie, IF 42		400/15.74	Black	XVUZ400T	0.320/0.705
Mounting plate for use on vertical support		_	Black	XVUZ12	0.360/0.794
Mounting plate with aluminium 1/ 2" NPT adapter		—	Black	XVUZ00	0.095/0.209







XVUZ12



XVUZ00

XVUZ06

- [24]
 Three-pin mounting.

 [25]
 Two-pin mounting.

 [26]
 Four-pin mounting.

 [27]
 Only for use with DC body unit.

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ŤŢ XVR 10••• TTT

XVR 13•••



XVR Pre-Wired Beacons and Accessories

Table 19.229: XVR Pre-Wired Rotating Mirror Beacons

Diameter (mm)	Sound Option	Enclosure Rating	Voltage	Color	Catalog Number
				Red	XVR08B04
Ø 84	Without buzzer	IP 23 (IP 65 with	24 Vac/Vdc	Orange	XVR08B05
0 04	without buzzer	accessories)	24 vac/vdc	Green	XVR08B03
		,		Blue	XVR08B06
		IP 23		Red	XVR10B04
	(IP 55 with accessories)	24 Vac/Vdc	Orange	XVR10B05	
			24 Vac/Vdc	Red	XVR12B04
Ø 120	Without buzzer	IP 23		Orange	XVR12B05
				Blue	XVR12B06
				Red	XVR12B04S
Ø 120	With buzzer	IP 23	24 Vac/Vdc	Orange	XVR12B05S
				Blue	XVR12B06S
		IP 23		Red	XVR13B04
Ø 130	Without buzzer	Resistant to vibration	24 Vdc	Orange	XVR13B05

Table 19.230: XVR Accessories

Description	Diameter (mm)	Height (mm)	Catalog Number
Rubber base to increase the IP degree of protection	84	_	XVRZ081
Mount tube and base	106, 120 and 130	300	XVCZ13
L-shape mounting bracket	84, 106 and 120	—	XVCZ23

XVR Z081

XVR 12•••



PUSH BUTTONS AND OPERATOR INTERFACE 19

Tower Lights and Beacons

XVR Pre-Wired Rotating Mirror Beacons

Schneider Refer to Catalog DIA5ED2130801EN Electric

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XVR3E06

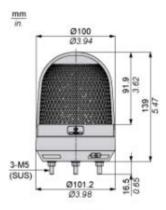
Diameter (Ø mm/in.)	Sound option	IP Degree of Protection	Voltage V	Color	Reference Number	Weight (kg/lb)
				Green	XVR3B03	
			10.04	Red	XVR3B04	
			12–24	Orange	XVR3B05	
	Without	IP 65 (upright) IP 23 (sideways,		Blue	XVR3B06	0.484/1.067
	buzzer	inverted)		Green	XVR3M03	0.464/1.067
			100–230	Red	XVR3M04	
				Orange	XVR3M05	
				Blue	XVR3M06	
			12–24	Green	XVR3B03S	
00/0 04		IP 23 (upright,		Red	XVR3B04S	
00/3.94	With buzzer	sideways, inverted)		Orange	XVR3B05S	
		infondu)		Blue	XVR3B06S	0 500/4 40
				Green	XVR3M03S	0.538/1.18
			100,000	Red	XVR3M04S	
Without buzzer			100–230	Orange	XVR3M05S	
	Without	IP 65 (upright		Blue	XVR3M06S	
		IP 23 (sideways, inverted)		Green	XVR3E03	
			40	Red	XVR3E04	0 40 4/4 00
			48	Orange	XVR3E05	0.484/1.067
				Blue	XVR3E06	

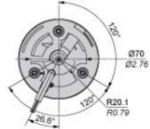
XVR Complete Pre-Cabled Motor-Less Rotating/Flashing Beacons

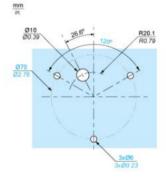
Dimensions

Panel Cut-out

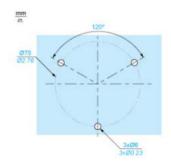
Straight wiring







Side wiring



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PUSH BUTTONS AND OPERATOR





XVS14BMW

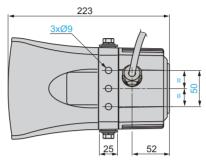


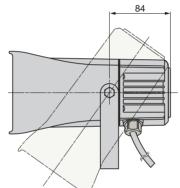
XVS72BM

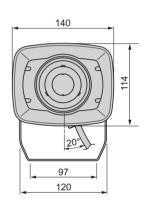
XVS Sirens and Electronic Alarms

Description	Voltage	Voltage Color				
Multisound siren 105 dB, 43 tones	12/24 Vdc	White	XVS14BMW			
Electronic alarms 90 dB, 16 tones Panel Mount DIN72		PNP, Black	XVS72BMBP			
	10/04 \/ 0/-	PNP, White	XVS72BMWP			
	12/24 Vac/Vdc	NPN, Black	XVS72BMBN			
		NPN, White	XVS72BMWN			

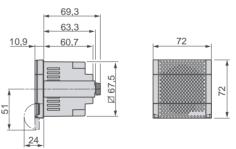
Table 19.233: XVS Dimensions (mm) XVS 14BMW







XVS 72BM ••



XVSV Editable Voice Alarms

Table 19.234: XVSV Editable Voice Alarms

Description	Voltage V	Color	Reference	Weight kg/lb
		NPN, Black	XVSV7BBN	
Editable alarms, DIN72	12–24	NPN, White	XVSV7BWN	0.142/0.313
DIN/Z		PNP, Black	XVSV7BBP	
	12–24	NPN, Black	XVSV9BBN	
		NPN, White	XVSV9BWN	0.268/0.591
Editable alarms, DIN96		PNP, Black	XVSV9BBP	
DINGO	100.000	NPN, Black	XVSV9MBN	0.007/0.500
	100–230	NPN, White	XVSV9MWN	0.267/0.589
Wall mounting plate for DIN72 and DIN96			XVSZ016	0.148/0.326



XVSV7BBN and XVSV9MWN

Class 9002





9002AW2 Type AW Foot Switch with Top Pedal Shield and Side Shields



9002AW/117 Type AW Foot Switch with Oversized Pedal Shield, Side Shields and Safety Door



9002AW132 Type AW with Oversized Pedal Shield and Side Shields



9002AW1 Type AW Foot Switch without Pedal Shield

Heavy Duty Industrial Foot Switches-Oiltight, Watertight, Dusttight and Driptight Enclosure, NEMA 2, 4 and 13

A DANGER

HAZARDOUS APPLICATIONS

Do not use foot switches on machines without point-of-operation protection.

Failure to follow these instructions will result in death, serious injury, or equipment damage.

Foot Switch Selection

Foot switches are used to control many industrial processes, while leaving the operator's hands free to perform other functions. The type or model of foot switch suitable for each application will vary depending on factors such as the control function required, degree of protection required, production methods, unusual conditions, government regulations, etc. In some applications more than one foot switch may be required, as when two or more persons are operating a machine. In these cases, safe practice and regulations require that the foot switches be wired in series making it necessary that each operator's foot switch be actuated before the machine will cycle.

Only the user can be aware of all the conditions and factors present during setup, operation and maintenance of the machine; therefore, only the user can determine which foot switch(es) can be properly used. When selecting a foot switch for a particular application, the user should refer to the applicable ANSI standards and OSHA regulations. The National Safety Council's Accident Prevention Manual also provides much useful information.

In some applications, such as power presses, additional operator protection such as point-of-operation guarding must be provided when a foot switch is used as an actuator. This is necessary since the operator's hands and other parts of the body are free to enter the pinch point area and serious injury can occur. The shielding provided on foot switches cannot protect an operator from injury. For this reason the foot switch cannot be substituted for or take the place of point-of-operation protection.

A Trilingual Danger Sign regarding the need for point-of-operation protection is supplied with each foot switch. The sign incorporates three languages: English, Spanish and French. Additional copies of the sign are available by contacting your Square D sales office.

Type AW Fully Shielded Foot Switch with Oversized Pedal Shield, Side Shields and Safety Door. The Safety Door is interlocked with the pedal to prevent operation due to shock or vibration. It prevents accidental pedal operation by requiring a simple but intentional motion to lift the door before inserting the foot.

Operating Temperature: -30 to +60 °C (-22 to +140 °F)





9002A Heavy Duty Industrial

www.se.com/us Table 19.235: Foot Switch Catalog Numbers [1]

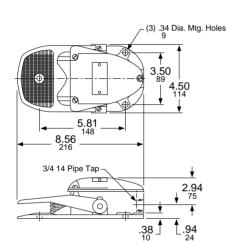
Description	Features	Fully Shielded with Oversized Pedal Shield, Side Shields and Safety Door		With Pedal Shield and Side Shields	UNSHIELDED (See Warning note[2])	
		Catalog Number	Catalog Number	Catalog Number	Catalog Number	
Single Pole[3] Double Throw	Spring Return With Mechanical Latch	AW117	AW132	AW2 AW7	AW1	
Two Pole [3] Double Throw	Spring Return With Mechanical Latch	AW124 [4]	AW133	AW14 AW15	AW13	
Two Stage <i>[3]</i> (One Pole Each Stage) Table 1	Spring Return With Mechanical Latch in 1st Stage With Mechanical Latch in 2nd Stage	AW119	AW134	AW6 AW9	AW5	
Four Stage [3] (One Pole Each Stage) Table 2	Spring Return	AW123	_	_	AW21	
Single Pole Single Throw	Maintained Contact—Push On/Push Off	_	_	AW12	AW11	
Replacement Cover Assembly	—	_	_	AC8 [5]	_	



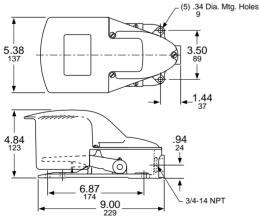


For **replacement parts** for Class 9002 Type AW: See instruction bulletin 65013-010-31. Also see Table 19.237 Contact Symbol—Two Stage, page 19-98 and Table 19.238 Contact Symbol—Four Stage, page 19-98.

Approximate Dimensions



Types AW1, AW5, AW11, AW13 and AW21



Types AW2, AW6, AW12, AW14 and AW22

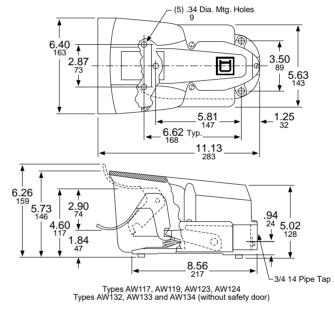
Dual Dimensions: INCHES Millimeters

- [1] When ordering, add prefix "9002" to the catalog number.
- [2] WARNING: These foot switches must not be used to operate machines or equipment where the possibility of operator injury exists. Typical uses include Emergency Stop functions, "Dead Man" controls, signal functions (lights, bells, etc.).
- [3] A single pole snap switch that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity. A double pole snap switch contains two dectrically separated sets of contact elements allowing use on circuits of opposite polarity. Each set that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity.

[4] 2 N.O. and 2 N.C. isolated, direct acting contacts.

[5] For replacement cover drilled to accept latch. For Series C foot switches order AC9. No replacement cover available for Series A or B devices drilled to accept latch. AC8 is spring return only.

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Class **9002**



Table 19.236: Maximum Current Ratings For Control Circuit Contacts

AC Ampe			nperes	S		DC Amperes		
Volts	anductive 75%		Resistive 75% Power Factor	Volts	Inductive and Resistive			
		-	Make, Break					
	Make	Break	and Continuous		Single Throw		Continuous	
120 240 480 600	40 20 10 8	15 10 6 5	15 10 6 5	125 250 600	2.0 0.5 0.1	0.5 0.2 0.02	15 15 15	
120 240 480 600	30 15 7.5 6	3 1.5 0.75 0.6	3 1.5 0.75 0.6	125 250 600 —	1.0 0.3 0.1	0.2 0.1 	10 10 10 	
115 230	36 18	6 3	_	125 250	2.2 1.1	_		
120 240 480 600	15.0 7.5 3.75 3.0	1.5 0.75 0.375 0.3	10 10 10 10	 		 	 	
120 240 480 600	60 30 15 12	6 3 1.5 1.2	10 10 10 10	120 240 600	1.1 0.55 0.2		10 10 10	
	240 480 600 240 480 600 115 230 120 240 480 600 120 240 480	Volts 35% Powe Make Make 120 40 240 20 480 10 600 8 120 30 240 15 480 7.5 600 6 115 36 230 18 120 15.0 240 7.5 480 3.75 600 3.0 120 60 240 30 480 15	Inductive 35% Power Factor Make Break 120 40 15 240 20 10 480 10 6 600 8 5 120 30 3 240 15 1.5 480 7.5 0.75 600 6 0.6 115 36 6 230 18 3 120 15.0 1.5 480 3.75 0.375 600 3.0 0.3 120 60 6 240 7.5 0.75 480 3.75 0.375 600 3.0 0.3 120 60 6 240 30 3 480 15 1.5	Nolts Inductive 35% Power Factor 75% Power Factor Power Factor Make Break Make, Break and Continuous 120 40 15 15 240 20 10 10 6 600 8 5 5 5 120 30 3 3 3 240 15 1.5 1.5 5 120 30 3 3 3 240 15 1.5 1.5 6 120 15.0 1.5 1.5 1.5 230 18 3 120 15.0 1.5 10 480 3.75 0.375 10 480 3.75 0.375 10 120 60 6 10 240 3.0 3 10 480 3.75 10.375 10 480 15 1.5 10	Inductive 35% Power Factor Resistive 75% Power Factor Volts Make Break Make, Break and Continuous Volts 120 40 15 15 125 240 20 10 10 6 6 600 8 5 5 600 600 120 30 3 3 125 250 120 30 3 3 125 250 120 30 3 3 125 250 480 7.5 0.75 0.75 600 - 480 7.5 0.75 10 - - 115 36 6 - 250 - 250 120 15.0 1.5 10 - - - 240 7.5 0.375 10 - - - - 480 3.75 0.375 10 - -	Inductive 35% Power Factor Resistive 75% Power Factor Volts Make Break Make, Break and	Inductive 35% Power Factor Resistive 75% Power Factor Volts Inductive 35% Power Factor Volts Inductive and Re Make Break Make, Break and Continuous Make and Break Make and Break Single Double Throw Double Throw 120 40 15 15 125 2.0 0.5 0.2 480 10 6 6 250 0.1 0.02 120 30 3 3 125 1.0 0.2 480 15 1.5 250 0.3 0.1 0.02 120 30 3 3 125 1.0 0.2 480 7.5 0.75 0.75 600 0.1 - 115 36 6 - - - - 115 36 6 - - - - 120 15.0 1.5 10 - - - 230<	

Table 19.237: Contact Symbol—Two Stage

Snap Switch			Pedal			
Unit	Circuit	Up	Half Down	Full Down		
1	A1	0	1	1		
	B1	1	0	0		
2	A2	1	1	0		
	B2	0	0	1		
NOTE: 0 = Op	en 1 = Closed					

Table 19.238: Contact Symbol—Four Stage

Snap Switch			Pedal Position						
Unit	Circuit		Up →Down						
1	1A1	0	0	1	1	1			
	1B1	1	1	0	0	0			
	2A1	0	1	1	1	1			
	2B1	1	0	0	0	0			
2	1A2	1	1	1	0	0			
	1B2	0	0	0	1	1			
	2A2	1	1	1	1	0			
	2B2	0	0	0	0	1			