

Class 9001 Type K 30 mm Push Buttons



The Class 9001 Type K family of push buttons, pilot lights and selector switches are heavy-duty products for heavy-duty applications. They offer interchangeable color inserts, color caps, contact blocks and light modules for customer flexibility and reduced inventory.

In addition, all contact blocks can be mounted side-by-side and/or in tandem to minimize enclosure space requirements. Further, the Type K was the first automotive manufacturing approved 30 mm operator.

Heavy-duty, oil-tight, dust-tight and water-tight without boots

- Rated UL Types 4 and 13
- Universal color caps reduce inventory, provide more flexibility
- Fingersafe® contact blocks and light modules for improved safety
- Color-coded contact blocks for ease of use and troubleshooting
- Single screw mounting of contact blocks for quick installation

Type K Momentary Contact Push Buttons (non-illuminated)

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
Contact	Color	Non-illuminated	
Full Guard			
	None	●	9001KR1B
	1 N.O.	●	9001KR1GH5
	1 N.C.	●	9001KR1RH6
	1 N.O./1 N.C.	(2)	9001KR1(2)H13
1 N.O./1 N.C.	(3)	9001KR1(3)H13	
1 N.O./1 N.C.	Ⓣ	9001KR1UH13**	
No Guard			
	None	●	9001KR3B
	1 N.O.	●	9001KR3GH5
	1 N.C.	●	9001KR3RH6
	1 N.O./1 N.C.	(2)	9001KR3(2)H13
1 N.O./1 N.C.	(3)	9001KR3(3)H13	
1 N.O./1 N.C.	Ⓣ	9001KR3UH13**	
Extended Guard			
	None	●	9001KR2B
	1 N.O.	●	9001KR2GH5
	1 N.C.	●	9001KR2RH6
	1 N.O./1 N.C.	(2)	9001KR2(2)H13
1 N.O./1 N.C.	(3)	9001KR2(3)H13	
1 N.O./1 N.C.	Ⓣ	9001KR2UH13**	
Mushroom Button 1 3/4 in. Dia. Head			
	None	●	9001KR4B
	1 N.O.	●	9001KR4GH5
	1 N.C.	●	9001KR4RH6
	1 N.O./1 N.C.	(4)	9001KR4(4)H13
Mushroom Button 2 1/4 in. Dia. Head			
	None	●	9001KR5B
	1 N.O.	●	9001KR5GH5
	1 N.C.	●	9001KR5RH6**
	1 N.O./1 N.C.	(4)	9001KR5(4)H13

(1) Insert light module assembly code. See light modules table for selections.
 (2) Insert color codes for Types KR1, 2, 3, B: ● L=, E=, G=, S=, R=, W=, Y=, and UNIVERSAL Ⓣ.
 (3) Insert lens color codes for Types K, L: L=, G=, R=, W=, Y=, A=, and C=.
 (4) Insert color codes for Types KR4, 5, 24, 25: B=, L=, G=, S=, R=, and Y=.

** Universal inserts contain one each of the following color inserts: black, blue, green, orange, red, white and yellow. No "universal" mushroom heads.
 *** Red mushroom head knobs can be imprinted with "EMERGENCY STOP" in raised white letters. Use color code "R05 instead of R," snap-in only.

Type K Momentary Contact Push Buttons (illuminated)

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13		
Contact	Color	Non-illuminated	illuminated	
Full Guard				
	1 N.O.	●	9001K1L(1)A	
	1 N.C.	●	9001K1L(1)GH5	
	1 N.O./1 N.C.	●	9001K1L(1)RH6	
	1 N.O./1 N.C.	(3)	9001K1L(1)(3)H13	
No Guard				
	1 N.O.	●	9001K2L(1)A	
	1 N.C.	●	9001K2L(1)GH5	
	1 N.O./1 N.C.	●	9001K2L(1)RH6	
	1 N.O./1 N.C.	(3)	9001K2L(1)(3)H13	
Extended Guard				
	1 N.O.	●	9001K3L(1)A20	
	1 N.C.	●	9001K3L(1)G20H5	
	1 N.O./1 N.C.	●	9001K3L(1)R20H6	
	1 N.O./1 N.C.	(3)	9001K3L(1)(3)20H13	
Mushroom Button 1 3/4 in. Dia. Head				
	None	●	9001K2L(1)A20	
	1 N.O.	●	9001K2L(1)G20H5	
	1 N.C.	●	9001K2L(1)R20H6	
	1 N.O./1 N.C.	(3)	9001K2L(1)(3)20H13	
Mushroom Button 2 1/4 in. Dia. Head				
	None	●	9001K2L(1)A21	
	1 N.O.	●	9001K2L(1)G21H5	
	1 N.C.	●	9001K2L(1)R21H6	
	1 N.O./1 N.C.	(3)	9001K2L(1)(3)21H13	

(1) Insert light module assembly code. See light modules table for selections.
 (2) Insert color codes for Types KR1, 2, 3, B: ● L=, E=, G=, S=, R=, W=, Y=, and UNIVERSAL Ⓣ.
 (3) Insert lens color codes for Types K, L: L=, G=, R=, W=, Y=, A=, and C=.
 (4) Insert color codes for Types KR4, 5, 24, 25: B=, L=, G=, S=, R=, and Y=.

** Universal inserts contain one each of the following color inserts: black, blue, green, orange, red, white and yellow. No "universal" mushroom heads.
 *** Red mushroom head knobs can be imprinted with "EMERGENCY STOP" in raised white letters. Use color code "R05 instead of R," snap-in only.



Type K Multi-Function Push Buttons (non-illuminated)

Operator Type		Heavy Duty, Oil-tight, Water-tight, NEMA 4, 13	
Contact	Color	Non-illuminated	
3 Position Mom.-Push Maint.-Neutral Mom.-Pull			
	None	●	9001KR8A
	1 N.C./N.C.E.C.	●	9001KR8RH25**
	1 N.C./N.C.E.C.	●	9001KR8GH25
	1 N.C./N.C.E.C.	(2)	9001KR8(2)H25
2 Position Maint.-Push Maint.-Pull			
	None	●	9001KR9A
	1 N.C.	●	9001KR9RH6**
	1 N.O./1 N.C.	●	9001KR9GH13
	1 N.C./N.C.E.C.	(2)	9001KR9(2)H13
2 Position, Trigger-Action, Turn-to-Release Emergency Stop			
	None	●	9001KR16
	2 N.O./2 N.C.	●	9001KR16H2
	1 N.O./1 N.C.	●	9001KR16H13
	1 N.O./1 N.C.	●	9001KR16H13

Type K Multi-Function Push Buttons (illuminated)

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13		
Contact	Color	Non-illuminated	illuminated	
3 Position Mom.-Push Maint.-Neutral Mom.-Pull				
	None	●	9001KR8P(1)A	
	1 N.C./N.C.E.C.	●	9001KR8P(1)RH25**	
	1 N.C./N.C.E.C.	●	9001KR8P(1)GH25	
	1 N.C./N.C.E.C.	(2)	9001KR8P(1)(2)H25	
2 Position Maint.-Push Maint.-Pull				
	None	●	9001KR9P(1)A	
	1 N.C.	●	9001KR9P(1)RH6	
	1 N.O./1 N.C.	●	9001KR9P(1)GH13	
	1 N.O./1 N.C.	(2)	9001KR9P(1)(2)H13	

(1) Insert light module assembly code. See light modules table for selections.
 (2) Color codes for Types KR8 and KR9 illuminated and non-illuminated: B=, L=, G=, S=, R=, W=, Y=, and C=.

Type K Pilot Lights

Pilot Light Type	Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
	Color	
Standard		
	●	9001KP(1)A31
	●	9001KP(1)R31
	●	9001KP(1)G31
	(4)	9001KP(1)(4)
Push-to-test		
	●	9001KT(1)A31
	●	9001KT(1)R31
	●	9001KT(1)G31
	(4)	9001KT(1)(4)
Remote Test		
	●	9001KTR(5)A31
	●	9001KTR(5)R31
	●	9001KTR(5)G31
	(4)	9001KTR(5)(4)

(1) Insert light module assembly code. See light modules table for selections.
 (4) Color codes: A31=, L31=, G31=, R31=, W31=, Y31=.
 (5) For KTR, use only full voltage light modules; AC use only. See Light Modules table.

Type K Maintained Contact Selector Switches

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13			
		Non-illuminated		Illuminated	
Description	Sequence	Color	Color		
2 Position					
Off-On	None	●	9001KS11B	●	9001K11J(1)R
	0 1	(2)	9001KS11(2)H36	●	9001K11J(1)GH36
	1 0				
One contact closed per position	0 1	●	9001KS11BH13	(2)	9001K11J(1)(2)H13
	1 0				
	0 0 1				
3 Position					
Hand-Off-Auto	None	●	9001KS43B	●	9001K43J(1)R
	1 0 0	●	9001KS43BH13	●	9001K43J(1)GH13
	0 0 1				
One contact closed per position	1 0 0	●	9001KS46BH28	(2)	9001K46J(1)(2)H28
	0 1 0	(2)	9001KS46(2)H28	●	9001K46J(1)GH28
	0 0 1				
Two contacts closed per position	1 0 0	●	9001KS46BH103	—	—
	0 1 0	●	9001KS46RH103	●	9001K46J(1)RH103
	0 1 0	●	9001KS46GH103	●	9001K46J(1)GH103
4 Position					
One contact closed per position	1 1 0	●	9001KS88B	●	9001K88J(1)R
	0 1 0	●	9001KS88BH2	●	9001K88J(1)GH2
	0 0 1	(2)	9001KS88(2)H2	(2)	K88J(1)(2)H2

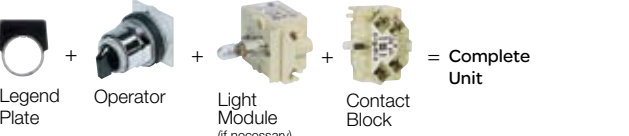
(1) Insert light module assembly code. See light modules table for selections.
 (2) Color codes for Type KS illuminated and non-illuminated selector switch: B=, L=, G=, S=, R=, W=, Y=, A= and C=.

Accessories

Lamps

Voltage	Rating	Lamp Number (ANSI)	
6 V AC/DC	0.9 VA	755	25501-01020
12-14 V AC/DC	1.2 VA	756	25501-01037
24-28 V AC/DC	1.2 VA	757	25501-01002
48 V AC/DC	2.6 VA	48 MB	25501-01025
120 V AC/DC	3.0 VA	120 MB	25501-01027

For LED lamps, see Schneider Electric's Square D Digest. All transformer light modules use 6 V lamps.



Fingersafe Light Modules

Description	Type	Assembly Code (1)
Transformer		
110-120 VAC	9001KM1	1
220-240 VAC	9001KM7	7
380-480 VAC	9001KM5	5
550-600 VAC	9001KM6	6
Full Voltage (2)		
12-14 VAC/DC	9001KM32	32
24-28 VAC/DC	9001KM35	35
48 VAC/DC	9001KM36	36
120 VAC/DC	9001KM38	38

(1) Substitute assembly code number in catalog number. Fingersafe removable terminal shroud standard for all light modules.
 (2) For remote test pilot lights, use standard depth, full voltage, AC only.

Legend Plates

Legends are standard black with silver or white letters.

Standard Markings	Standard Aluminum	Standard Aluminum
Blank	9001KN200	9001KN300
Start	9001KN201	9001KN301
Stop*	9001KN202	9001KN302
On	9001KN203	9001KN303
Off	9001KN204	9001KN304
Emerg. Stop*	9001KN205	9001KN305
Forward	9001KN206	9001KN306
Reverse	9001KN207	9001KN307
Close	9001KN208	9001KN308
Open	9001KN209	9001KN309
Down	9001KN210	9001KN310
Up	9001KN211	9001KN311
Run	9001K212	9001K312
Reset	9001KN213	9001KN313
On-Off	9001KN215	9001KN345
Hand-off-Auto	9001KN260	9001KN360
Pull to Start	9001KN279	9001KN379
Push to Stop		
Specify Mrkg.	9001KN299	9001KN399

* "STOP" and "EMERGENCY STOP" legends have RED backgrounds with SILVER letters for aluminum and BLACK letters for plastic.

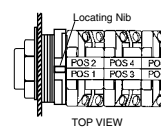
Fingersafe Contact Blocks

Symbol	Type	Description
	9001KA1	1 N.O./1 N.C.
	9001KA4	1 N.O.E.C./1 N.C.
	9001KA2	1 N.O.
	9001KA6	1 N.O.E.C.
	9001KA3	1 N.C.
	9001KA5	1 N.C.L.O.

N.O. = Normally open, N.C. = Normally closed
 E.C. = Early closing, L.O. = Late opening.

"H" Suffix Numbers for Contact Blocks

Type 9001KA contact blocks are designed to be mounted side-by-side or in tandem. "H" numbers designate contact block arrangement.



Position	Position						
	Suffix #	1	2	3	4	5	6
H1	9001KA1	—	—	—	—	—	—
H2	9001KA1	9001KA1	—	—	—	—	—
H5	9001KA2	—	—	—	—	—	—
H6	9001KA3	—	—	—	—	—	—
H7	9001KA2	9001KA2	—	—	—	—	—
H8	9001KA3	9001KA3	—	—	—	—	—
H9	9001KA4	9001KA1	—	—	—	—	—
H13	—	9001KA1	—	—	—	—	—
H14	—	9001KA3	—	—	—	—	—
H23	9001KA1	9001KA1	9001KA1	9001KA1	9001KA1	9001KA1	9001KA1
H24	9001KA1	9001KA2	—	—	—	—	—
H25	9001KA5	9001KA2	—	—	—	—	—
H28	9001KA1	9001KA2	—	—	—	—	—
H36	9001KA1	9001KA1	9001KA3	9001KA3	—	—	—

Example: Full guard universal push button with KA1 contact block located in right-hand position (position 2) = 9001KR1UH13.

This document has been printed on recycled paper

Schneider Electric USA, Inc.

Automation and Control Center of Excellence
 8001 Knightdale Blvd.
 Knightdale, NC 27545
 Tel: 919-266-3671
 www.schneider-electric.us

Selection Guide

XB4 22 mm Push Buttons



The XB4 chrome push buttons, pilot lights and selector switches are designed for industrial applications. They combine ease of installation and new technology such as protected LED® light modules and spring clamp contact blocks or light modules.

The world's most popular push button is rated both NEMA and UL Types 1, 2, 3, 4, 4X and 13, and IP65 for the most demanding oil-tight, water-tight, dust-tight and corrosion-resistant applications. Properly installed, these devices are UL listed, CSA certified and meet VDE, IEC and European Community Standards. Available locally and globally with consistent part numbering, the XB line is the most extensive offering of control and signaling devices in the world!

Illuminated and Non-Illuminated Color Key

White	Black	Green	Red	Yellow	Blue	Clear	Grey

Push Button Operators

ZB4BA1 ZB4BA2 ZB4BA3 ZB4BA4 ZB4BA5 ZB4BA6 ZB4BA8	ZB4BL1 ZB4BL2 ZB4BL3 ZB4BL4 ZB4BL5 ZB4BL6	ZB4BA16 ZB4BA26 ZB4BA36 ZB4BA46 ZB4BA56 ZB4BA66	ZB4BP1 ZB4BP2 ZB4BP3 ZB4BP4 ZB4BP5 ZB4BP6

ZB4BA133 ZB4BA331 ZB4BA432	ZB4BA333 ZB4BA435
ZB4BA341	
ZB4BL432	ZB4BL434
ZB4BL435	

Mushroom Operators

Available Size(s)			
2 Position Momentary	30 mm ZB4BC24 ZB4BC44	40 mm ZB4BC2 ZB4BC4	60 mm ZB4BR2 ZB4BR4
Push Maintain/Pull Release	40 mm ZB4BT2 ZB4BT84*	60 mm ZB4X2 ZB4BT4, ZB4X4	
Push Maintain/Turn Release	30 mm ZB4BS42 ZB4BS834*, ZB4BS44	40 mm ZB4BS52 ZB4BS844*, ZB4BS54	60 mm ZB4BS62 ZB4BS64
Push Maintain/Key Release	30 mm ZB4BS72 ZB4BS934*, ZB4B74	40 mm ZB4BS12 ZB4BS944*, ZB4B14	60 mm ZB4BS24 ZB4BS964*, ZB4B24

*Trigger-action emergency stop operators.

Selector Switches

Position			
2 Position	ZB4BD2 ZB4BD4	ZB4BJ2 ZB4BJ4	ZB4BG2 ZB4BG4 ZB4BG6
3 Position	ZB4BD3 ZB4BD5 ZB4BD7 ZB4BD8	ZB4BJ3 ZB4BJ5 ZB4BJ7 ZB4BJ8	ZB4BG3 ZB4BG5 ZB4BG9 ZB4BG0
			ZB4BG7 ZB4BG8 ZB4BG1 ZB4BG6

● Maintained Position ○ Spring Return ♦ Key Removal

	Contact Block Guide
O X	1 N.O. (left or right)
X O	1 N.C. (left or right)
O X	1 N.O.
X O	1 N.C.

	Contact Block Guide
X O O	1 N.O. left
O X O	2 N.C. wired in series (side by side)
O O X	1 N.O. right
X X O	1 N.C. right
O X X	1 N.C. left
X O X	2 N.O. wired in parallel (side by side)

Pilot Light Heads

Lens Color						
LED or Neon	ZB4BVO13 ZB4BVO33 ZB4BVO43 ZB4BVO53 ZB4BVO63					
Incandescent	ZB4BVO1 ZB4BVO3 ZB4BVO4 ZB4BVO5 ZB4BVO6 ZB4BVO7					

Pilot Light Module (with base)

Lens Color	Light Source	Supply Voltage	Number
Direct Supply (lamp not included)			
	BA 9s Bulbs 2.4 W Max. (not included)	≤ 250 Vac	ZV4BV6
Transformer Type (6 V lamp included)			
	BA 9s bulb (included)	110-120 Vac 50/60 Hz	ZB4BV3
		230-240 Vac 50/60 Hz	ZB4BV4
		440-480 Vac 60 Hz	ZB4BV8

Light Source Color	Supply Voltage	Number	Supply Voltage	Number
Protected LED				
	24 Vac or Vdc	ZB4BV1 ZB4BV3 ZB4BV4 ZB4BV5 ZB4BV6	110-120 Vac	ZB4VG1 ZB4VG3 ZB4VG4 ZB4VG5 ZB4VG6

Contact Blocks

N.O.	N.C.	Screw Terminals	Spring Clamps
Contact Blocks with Mounting Base			
1	—	ZB4BZ101	ZB4BZ1015
—	1	ZB4BZ102	ZB4BZ1025
2	—	ZB4BZ103	ZB4BZ1035
—	2	ZB4BZ104	ZB4BZ1045
1	1	ZB4BZ105	ZB4BZ1055
Contact Blocks without Mounting Base			
1	—	ZBE101	ZBE1015
—	1	ZBE102	ZBE1025

Illuminated Push Buttons

ZB4BW13 ZB4BW31 ZB4BW33 ZB4BW34 ZB4BW35 ZB4BW36 ZB4BW37	ZB4BW13 ZB4BW33 ZB4BW34 ZB4BW35 ZB4BW363	ZB4BW11 ZB4BW13 ZB4BW14 ZB4BW15 ZB4BW16 ZB4BW17	ZB4BW113 ZB4BW133 ZB4BW143 ZB4BW153 ZB4BW163
Silicon Booted Flush Head			
	ZB4BW513 ZB4BW533 ZB4BW543 ZB4BW553 ZB4BW563		

LED Light Modules (screw terminal) with Mounting Base and Contact Blocks

					N.O.	N.C.
24 Vac or Vdc						
ZB4BWOB11	ZB4BWOB31	ZB4BWOB41	ZB4BWOB51	ZB4BWOB61	1	—
ZB4BWOB12	ZB4BWOB32	ZB4BWOB42	ZB4BWOB52	ZB4BWOB62	—	1
ZB4BWOB13	ZB4BWOB33	ZB4BWOB43	ZB4BWOB53	ZB4BWOB63	2	—
ZB4BWOB15	ZB4BWOB35	ZB4BWOB45	ZB4BWOB55	ZB4BWOB65	1	1
110-120 Vac						
ZB4BWOG11	ZB4BWOG31	ZB4BWOG41	ZB4BWOG51	ZB4BWOG61	1	—
ZB4BWOG12	ZB4BWOG32	ZB4BWOG42	ZB4BWOG52	ZB4BWOG62	—	1
ZB4BWOG13	ZB4BWOG33	ZB4BWOG43	ZB4BWOG53	ZB4BWOG63	2	—
ZB4BWOG15	ZB4BWOG35	ZB4BWOG45	ZB4BWOG55	ZB4BWOG65	1	1

Incandescent Light Modules (screw terminal) with Mounting Base and Contact Blocks

	Light Source	Supply Voltage	N.O.	N.C.	Number
Direct Supply (lamp not included)					
	BA 9s bulbs 2.4 W max. (order lamp separately)	≤ 250 Vac	1	—	ZB4BW061
			—	1	ZB4BW062
			2	—	ZB4BW063
			1	1	ZB4BW065
Transformer Type					
	BA 9s Incandescent bulb (included)	110-120 Vac 50/60 Hz	1	—	ZB4BW031
			1	1	ZB4BW035
		230-240 Vac 50/60 Hz	1	—	ZB4BW041
			1	1	ZB4BW045

Lamps

	Voltage	Wattage	Number
	6 V	1.5 w	DL1CB006
	12 V	2.6 w	DL1CE012
	24 V	2.6 w	DL1CE024
	130 V	2.6 w	DL1CE130

Single LED Light Modules (without mounting base, without contact blocks)

Screw Terminals					
24 Vac or Vdc	ZBVB1	ZBVB3	ZBVB4	ZBVB5	ZBVB6
110-120 Vac	ZBVG1	ZBVG3	ZBVG4	ZBVG5	ZBVG6
Spring Clamps					
24 Vac or Vdc	ZBVB15	ZBVB35	ZBVB45	ZBVB55	ZBVB65
110-120 Vac	ZBVG15	ZBVG35	ZBVG45	ZBVG55	ZBVG65

Reset Operators

				Actuation Distance	Travel
	XB4BA821	XB4BA841	XB4BA861	0.24-0.63 in. (6-16 mm)	0.39 in. (10 mm)
	XB4BA822	XB4BA842	XB4BA862	0.63-1.02 in. (16-26 mm)	
	XB4BA921	XB4BA941	XB4BA961	1.18-5.12 in. (30-130 mm)	0.55 in. (14 mm)
	XB4BA922	XB4BA942	XB4BA962	5.12-10.12 in. (130-257 mm)	

Joystick Controllers

	1 step 1 N.O. contact per direction	2 direction	XD4PA12: Spring Returned XD4PA22: Maintained
		4 direction	XD4PA14: Spring Returned XD4PA24: Maintained

Potentiometer Operator

	For potentiometer with shaft length 1.73 in. to 1.97 in. (44 mm to 50 mm)	For shaft 0.25 in. (6.35 mm) diameter	ZB4BD922
--	---	---------------------------------------	----------

PVC Legend Plates

30 X 40 mm		
○ (red background)		ZBY2931
I		ZBY2147
STOP		ZBY2304
AUTO-HAND		ZBY2364
CLOSE		ZBY2314
DOWN		ZBY2308
EMERGENCY STOP		ZBY2330
FAST		ZBY2328
FORWARD		ZBY2305
HAND		ZBY2316
HAND-OFF-AUTO		ZBY2387
INCH		ZBY2321
OFF		ZBY2312
OFF-ON		ZBY2367
ON		ZBY2311
OPEN		ZBY2313
POWER ON		ZBY2326
RESET (red background)		ZBY2323
REVERSE		ZBY2306
RUN		ZBY2334
SLOW		ZBY2327
START		ZBY2303
STOP-START		ZBY2366
UP		ZBY2307

Yellow Contrast Plates

	Markings	Number
	60 mm Round	
	Unmarked	ZBY9101
	"Emergency Stop"	ZBY9330
	90 mm Round	
	Unmarked	ZBY8101
	"Emergency Stop"	ZBY8330

Push Button Selection Guide



Make the most of your energySM