

# Pendant Stations

Type BW, XACA, and SKYP

Catalog  
9001CT1001R07/13

2013

Class 9001



# Pendant Stations

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## Type BW Standard Duty Pendant Stations



BW90/BW100

All of the features of the Class 9001 Type BW pendant stations with external strain relief are now pre-assembled into one catalog number.

- Push button legend inserts
- Field-installable mushroom button
- Full cover gasket, to exclude harmful contaminants
- Jumper, included on all single speed buttons (except universal types), to save wiring time
- Self-lifting pressure wire connectors, for easy wiring
- Operator and contact sold as one unit

The Class 9001 Type BW Pendant Station is a pre-assembled, 2-button station well suited for standard hoist applications. Oversized finger grips on the rear of the enclosure make it easy to grip and operate.

### Features and Options

- Made of high impact thermoplastic with UL 94V rating (self-extinguishing flammability)
- NEMA 1, 3, 3R, 4, and 4X watertight, dusttight, oilResplaces 9001CT1001, 12/2010tight, and corrosion resistant
- UL Listed and CSA approved
- 1/2" conduit opening
- Internal strain-relief post
- Momentary or maintained contact
- Single speed or two speed
- With or without a mechanical interlock
- Optional external hanger bracket and seal
- Ribs on the top of the enclosure to prevent the hanger bracket from rotating and coming loose
- Contoured for easy grip
- Easy to hold with one hand






# Pendant Stations Specifications

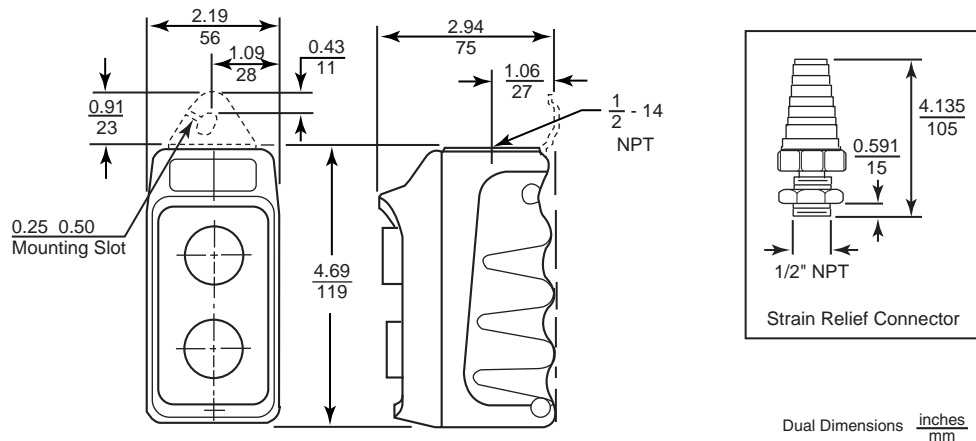
## Specifications

The Class 9001 BW90 and BW100 pendant stations are used for hoist applications requiring either single-speed or two-speed buttons. These thermoplastic enclosures have a 1/2-inch conduit entrance at the top to accept a pendant cable. Internal and external strain relief comes standard. The stations are rated NEMA Type 1, 3, 3R, 4, and 4X. The enclosure is available in three colors. All universal stations have double circuit blocks (1 N.O.—1 N.C.) on each button and come without legends so they can be assembled to fit the application. For convenience, push buttons have interchangeable legend inserts. The complete line is UL listed and CSA certified.

**Table 1: General Specifications, Type BW**

|                              |   |   |   |
|------------------------------|---|---|---|
| <b>Electrical Ratings</b>    | AC = NEMA / UL B600; DC = NEMA / UL P600  |   |   |
| <b>Enclosure Type</b>        | NEMA / UL Type 1, 3, 3R, 4, and 4X  |   |   |
| <b>Operating Temperature</b> | -25 °C to +60 °C (-13 °F to +140 °F)  |   |   |
| <b>Storage Temperature</b>   | -40 °C to +70 °C (-40 °F to +158 °F)  |   |   |
| <b>Housing Material</b>      | Polycarbonate/PET Polyester Blend   |   |   |
| <b>Approvals</b>             |  File E78403<br>CCN NKCR |  File LR 25490<br>Class 3211 03 |  Marking |

**Figure 1: Dimensions, Type BW**



**Table 2: Electrical Ratings DC**

| DC—NEMA / UL P600 |                         |                             |
|-------------------|-------------------------|-----------------------------|
| Volts             | Inductive and Resistive |                             |
|                   | Make and Break Amperes  | Continuous Carrying Amperes |
| 120               | 1.10                    | 5                           |
| 240               | 0.55                    | 5                           |
| 600               | 0.20                    | 5                           |

**Table 3: Electrical Contact Ratings, AC, Type BW**

| Volts [1] | AC—NEMA / UL B600              |      |       |     |                                |  |
|-----------|--------------------------------|------|-------|-----|--------------------------------|--|
|           | Inductive,<br>35% Power Factor |      |       |     | Continuous<br>Carrying Amperes | Resistive,<br>75% Power Factor<br><br>Make, Break,<br>and Continuous<br>Carrying Amperes |
|           | Make                           |      | Break |     |                                |  |
| A         | VA                             | A    | VA    |     |                                |  |
| 120       | 30.0                           | 3600 | 3.0   | 360 | 5                              | 5  |
| 240       | 15.0                           | 3600 | 1.5   | 360 | 5                              | 5  |
| 480       | 7.5                            | 3600 | 0.75  | 360 | 5                              | 5  |
| 600       | 0.6                            | 3600 | 0.6   | 360 | 5                              | 5  |

<sup>1</sup> OSHA Regulation, Section 1910.170 Overhead and Gantry Cranes, limits the voltage at pendant push buttons to 150 Vac or 300 Vdc.



**BW90 / BW100**

**Table 4: Type BW90 and BW100 Pendant Stations with Cord Connector and Strain Relief**

| Description     | Legend Insert<br>Markings | Mechanical<br>Interlock | Enclosure Color |         |         | Contact<br>Symbol | Replacement<br>Interior |                   |
|-----------------|---------------------------|-------------------------|-----------------|---------|---------|-------------------|-------------------------|-------------------|
|                 |                           |                         | Yellow          | Black   | Red     |                   | 9001<br>Type            | Contact<br>Symbol |
| Single<br>Speed | Up-Down                   | Yes                     | BW92Y           | BW92B   | BW92R   | 146               | BOC368                  | 146               |
|                 | Forward-Reverse           | Yes                     | BW93Y           | BW93B   | BW93R   | 146               | BOC368                  | 146               |
|                 | On-Off [1]                | Yes                     | BW94Y           | BW94B   | BW94R   | 10                | BOC358                  | 147               |
|                 | Start-Stop                | No                      | BW95Y           | BW95B   | BW95R   | 145               | BOC359                  | 25                |
|                 | Start-Stop [1]            | Yes                     | BW96Y           | BW96B   | BW96R   | 10                | BOC358                  | 147               |
|                 | On-Off [1]                | No                      | BW97Y           | BW97B   | BW97R   | 146               | BOC359                  | 25                |
|                 | Up-Down                   | Yes                     | BW98Y           | BW98B   | —       | 100               | —                       | —                 |
|                 | Without Inserts           | Yes                     | BW90YU          | BW90BU  | BW90RU  | 147               | BOC366                  | 25                |
|                 | Without Inserts           | No                      | BW91YU          | BW91BU  | BW91RU  | 25                | BOC359                  | 25                |
|                 | Without Inserts [1]       | Yes                     | BW94YU          | BW94BU  | BW94RU  | 147               | BOC358                  | 147               |
| Two<br>Speed    | Without Inserts           | Yes                     | BW100YU         | BW100BU | BW100RU | 150               | BOC367                  | 150               |
|                 | Up-Down                   | Yes                     | BW102Y          | BW100B  | BW102R  | 150               | BOC367                  | 150               |

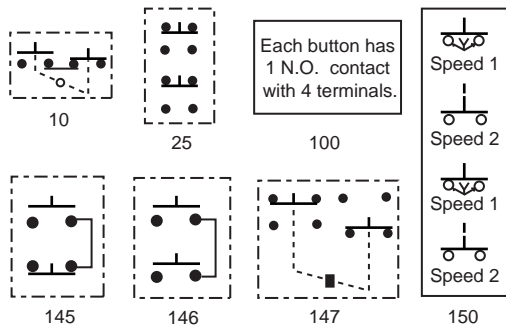
<sup>1</sup> Maintained contact

**Table 5: How to Order**

| Specify:        |       |
|-----------------|-------|
| • Class Number  |       |
| • Type Number   |       |
| Catalog Number: |       |
| Class           | Type  |
| 9001            | BW92Y |

# Pendant Stations Specifications

**Figure 2: Contact Symbols**



**Approvals**



**Table 6: Interchangeable Push Button Legend Inserts for 9001 BW Pendants, NEMA / UL Type 4X [1]**

| Marking | Push Button | Mushroom Button | Marking | Push Button | Mushroom Button |
|---------|-------------|-----------------|---------|-------------|-----------------|
|         | Type        | Type            |         | Type        | Type            |
| Start   | B259        | B282            | On      | B257        | B280            |
| Stop    | B260        | B283            | Off     | B258        | B281            |
| Forward | B255        | B278            | Hand    | B265        | B288            |
| Reverse | B256        | B279            | Auto    | B266        | B289            |
| Open    | B263        | B286            | —       | —           | —               |
| Close   | B264        | B287            | Black   | B251        | B251            |
| Raise   | B261        | B284            | —       | —           | —               |
| Lower   | B262        | B285            | Red     | B252        | B252            |
| Up      | B253        | B276            | —       | —           | —               |
| Down    | B254        | B277            | —       | —           | —               |


<sup>1</sup> Order in multiples of 10.

**Table 7: Legend Insert Kit**

| Where Used:  |                 | Type [1]                                    |
|--|-----------------|---|
| For NEMA Type 4X: Type BW70, BW80, BW90, and BW100 | Push Button     | B250 (includes 1 each of B253 through B266) |
|  | Mushroom Button | B300 (includes 1 each of B276 through B289) |


<sup>1</sup> Kit includes one each of standard legend inserts as indicated under Type of kit.

**Table 8: Hanger Bracket [1] (Factory Installed Only on Type BW70 and BW80)**


|   | Form |
|---|------|
|  | Y236 |

<sup>1</sup> Addition of the external hanger bracket (similar to the one used on Class 9001 Type SKYP pendant stations). Use when polymeric cord connectors are required.

**Table 9: Strain Relief Replacement for Type BW90 and BW100**

|   | Order Number |
|---|--------------|
|  | BWSR         |

**Table 10: Hanger Bracket and Seal Kit**

|   | Order Number |
|---|--------------|
|  | B350         |

**Table 11: Mushroom Button (without Button Insert) for 9001 BW Pendants, NEMA / UL Type 4X [1]**

| Color | Type |
|-------|------|
| Red   | B303 |

<sup>1</sup> See page 3 for dimensions.

**Table 12: 9001 BW Pendant Replacement Enclosures [1]**

| Description                    | Yellow | Red  | Black |
|--------------------------------|--------|------|-------|
| Box and cover with four screws | BWRY   | BWRR | BWRB  |

<sup>1</sup> Screws are required. Order quantity of four, catalog no. 3110128001.

## Type XACA General Information

XACA pendant stations are designed for standard- or medium-duty control circuit applications. The enclosures are made from rugged, double insulated thermoplastic material. These stations have been designed for easy handling and operation, even with heavy work gloves.

Two styles of stations are offered: “small hoist” pistol grip stations with integral parts (see Table 14 on page 8), and “general purpose” station components with modular assembly required. The general purpose components are available as custom, factory-assembled stations. For custom applications, a wide range of operators, contact blocks, legend plates, and accessories are offered.



**XACA08**

Shown with optional operators and accessories.



### Features

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




### Applications

- Overhead cranes
- Tower cranes
- Fixed hoists
- Beam hoists

To place a custom pendant order, use the worksheet on 12 as a guide. Orders must be placed through the Product Selector in Quote to Cash. There is a 10% charge for assembly.

## Type XACA Specifications

**Table 13: XACA Specifications**

|                              |   |
|------------------------------|---|
| <b>Electrical Ratings</b>    | NEMA / UL A600, Q600  |
| <b>Enclosure XACA0</b>       | NEMA / UL Type 4, 4X (Indoor/Outdoor), 5, IP 65   |
| <b>XACA2 (Pistol Grip)</b>   | NEMA / UL Type 4, 4X (Indoor/Outdoor), 5, IP 65   |
| <b>Operating Temperature</b> | -15 °C to +70 °C (-5 °F to +158 °F)   |
| <b>Storage Temperature</b>   | -40 °C to +70 °C (-40 °F to +158 °F)  |
| <b>Housing Material</b>      | Yellow polypropylene V2   |
| <b>Shock Resistance</b>      | 100 g   |
| <b>Vibration Resistance</b>  | 15 g for 40 to 500 Hz   |
| <b>Mechanical Life</b>       | 1 million operations<br><small>(The product life expressed is based on average usage and normal operating conditions. Actual operating life varies with conditions. The above statements are not intended to nor shall they create any express or implied warranties as to product operation or life. For information on the limited warranty offered on this product, please refer to Schneider Electric terms and conditions of sale found in the <i>Digest</i>.)</small> |
| <b>Operating Force</b>       | XACA multi-element types <ul style="list-style-type: none"> <li>• With contact ZB2BE: 1 daN (36 oz.) for 1 N.O.; 1.3 daN (46.8 oz.) for 1 N.O. / 1 N.C.</li> <li>• With contact XENG1491: 1.4 daN (50.4 oz.) for 1 N.C. / 2 N.O.</li> <li>• With contact XENG1191: 1.4 daN (50.4 oz.) for 1st step; 2.5 daN (89.9 oz.) for 2nd step</li> </ul>  |
| <b>Cable Entry</b>           | XACD: 7 to 18 mm<br>All other models: 9 to 13 mm  |
| <b>Cabling</b>               | Screw and captive cable clamp terminals. Recommended torque 15.62 lb-in (0.8 N•m nominal, 1.2 N•m maximum)<br>Capacity: minimum 1 x 0.5 mm <sup>2</sup> (20 AWG) solid or stranded; maximum, with or without cable end: 2 x 1.5 mm <sup>2</sup> (16 AWG) or 1 x 2.5 mm <sup>2</sup> (14 AWG) or by cable quick connector conforming to NF C 20- 20 (on request).  |
| <b>Approvals</b>             |  File E164353<br>CCN NKCR  File LR 44087<br>Class 3211 03  Marking  |

# Pendant Stations

## Type XACA Specifications



XACA2013



XACA06



XACA03

(Shown with optional operator)



ZB2BE10•



XENG37\*1



XENG1191



XACS10•

**Table 14: Pistol Grip Stations**

| Description  | Speeds | Function<br>1 Speed / 2 Speed | Catalog Number |
|--|--------|-------------------------------|----------------|
| 1 N.O. contact per operator<br>2 mechanically interlocked operators              | 1      | ↑<br>↓                        | XACA201 [1]    |
| 2 N.O. (staggered) contacts per operator<br>2 mechanically interlocked operators | 2      | ↕                             | XACA207 [1]    |
| 1 N.O. + 1 N.C.<br>2 mechanically interlocked operators                          | 1      | ↑<br>↓                        | XACA205 [1]    |
| 1 N.O. contact per direction<br>1 mechanically interlocked 2 way toggle          | 1      | ↓<br>↑                        | XACD21A0101    |
| 1 N.O. & 1 N.C. contact per direction<br>1 mechanically interlocked 2 way toggle | 1      | ↓<br>↑                        | XACD21A0105    |

<sup>1</sup> These XAC units are available with factory installed E-stops. Add a 3 to the end of the catalog number for the standard E-stop or add a 4 for a trigger action E-stop. E-stops include one N.C. contact block.

**Table 15: General Purpose Pendants [1, 2]**

| Enclosures                                     | Catalog Number |
|--|----------------|
| 2-hole enclosure                               | XACA02H7       |
| 3-hole enclosure (top hole is for E-stop only) | XACA03H7 [3]   |
| 4-hole enclosure                               | XACA04H7       |
| 6-hole enclosure                               | XACA06H7       |
| 8-hole enclosure                               | XACA08H7       |
| 12-hole enclosure                              | XACA12H7       |

<sup>1</sup> Standard enclosures include internal mounting plate, cable sleeve for 8 to 26 mm, internal cable clamp, suspension ring and cable tie.

<sup>2</sup> Due to space limitations, two ZB2BE101 or ZB2BE102 contact blocks will fit behind each operator, but only one of any other contact block. Potentiometers will not fit in the enclosures.

<sup>3</sup> Cannot use base-mounted items or mounting adapter.

**Table 16: Contact Blocks for Operators in Cover [1]**

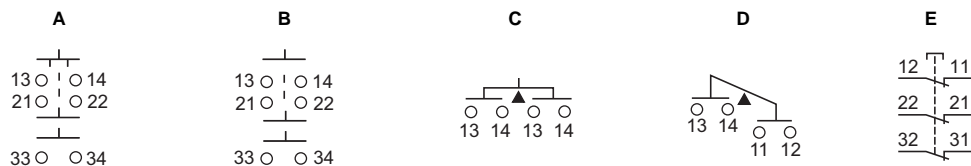
| Description   | Wiring Diagram | Catalog Number |
|---|----------------|----------------|
| 1 N.O. / spring return / 1 speed                                    | —              | ZB2BE101       |
| 1 N.C. / spring return / 1 speed                                    | —              | ZB2BE102       |
| 1 N.O. early close, and 1 N.C. and 1 N.O. / spring return / 2 speed | A              | XENG1191       |
| 1 N.C. and 2 N.O. / spring return / 1 speed                         | B              | XENG1491       |
| 1 N.O. and 1 N.O. latching / 1 speed / interlocked                  | C              | XENG3781       |
| 1 N.O. and 1 N.C. latching / 1 speed / interlocked                  | D              | XENG3791       |
| N.C. + N.C. + N.C. with positive opening operation                  | E              | XENT1192       |

<sup>1</sup> For mounting in enclosures: XACA03 (frontal cut-out); XACA05, A06, A08 (frontal or base cut-out).

**Table 17: Contact Blocks For Operators in Base of Enclosure [1]**

| Description                 | Catalog Number |
|-----------------------------|----------------|
| 1 N.O. / 1 speed            | XACS101        |
| 1 N.C. / 1 speed            | XACS102        |
| 2 N.O. / 1 speed            | XACS103        |
| 2 N.C. / 1 speed            | XACS104        |
| 1 N.O. and 1 N.C. / 1 speed | XACS105        |

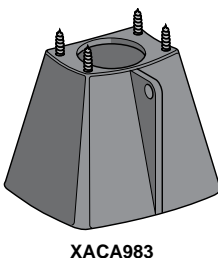
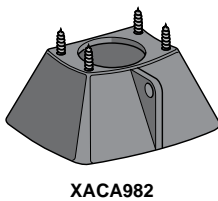
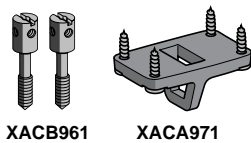
<sup>1</sup> Cannot be used with XACA03 pendant.





# Pendant Stations Type XACA Specifications

**Table 18: Operators [1]**



| Description        | Color  | Catalog Number |
|--------------------|--------|----------------|
| Booted push button | White  | XACA9411       |
|                    | Black  | XACA9412       |
|                    | Green  | XACA9413       |
|                    | Red    | XACA9414       |
|                    | Yellow | XACA9415       |
|                    | Blue   | XACA9416       |
|                    | Brown  | XACA9419       |

| Description  | Mushroom Size | Color | Catalog Number |
|--|---------------|-------|----------------|
| Mushroom head, momentary   | 30 mm         | Red   | ZA2BC44        |
| Mushroom head, push to maintain / turn to release                          | 30 mm         | Red   | ZA2BS44        |
|  | 40 mm         | Red   | ZA2BS54        |
| Mushroom head, push to maintain / turn to release (trigger action) [2]     | 30 mm         | Red   | ZA2BS834       |
|  | 40 mm         | Red   | ZA2BS844       |
| Mushroom head, push to maintain / key turn to release                      | 30 mm         | Red   | ZA2BS74        |
|  | 40 mm         | Red   | ZA2BS14        |
| Mushroom head, push to maintain / key turn to release (trigger action) [2] | 40 mm         | Red   | ZA2BS844       |

| Description  | Color | Catalog Number |
|--|-------|----------------|
| Selector switch / 2 position—maintained [3]  | Black | ZA2BD2         |
| Selector switch / 3 position—maintained [3]  | Black | ZA2BD3         |
| Selector switch / 2 position—maintained key operated—key removal from left or right position [3] | NA    | ZA2BG4         |
| Selector switch / 3 position—maintained key operated—key removal from left or right position [3] | NA    | ZA2BG5         |
| Wobble stick (bottom mounting recommended)   | Black | ZA2BB2         |
|  | Red   | ZA2BB4         |

- 1 Booted push buttons are for cover mounting only. All other operators can be mounted on cover or bottom.
- 2 Trigger action mushroom heads are tamper-proof, meaning that teasing or floating the operator does **not** change the contact state.
- 3 Not for use with XENG or XENT contact blocks.

**Table 19: Pilot Light Components**

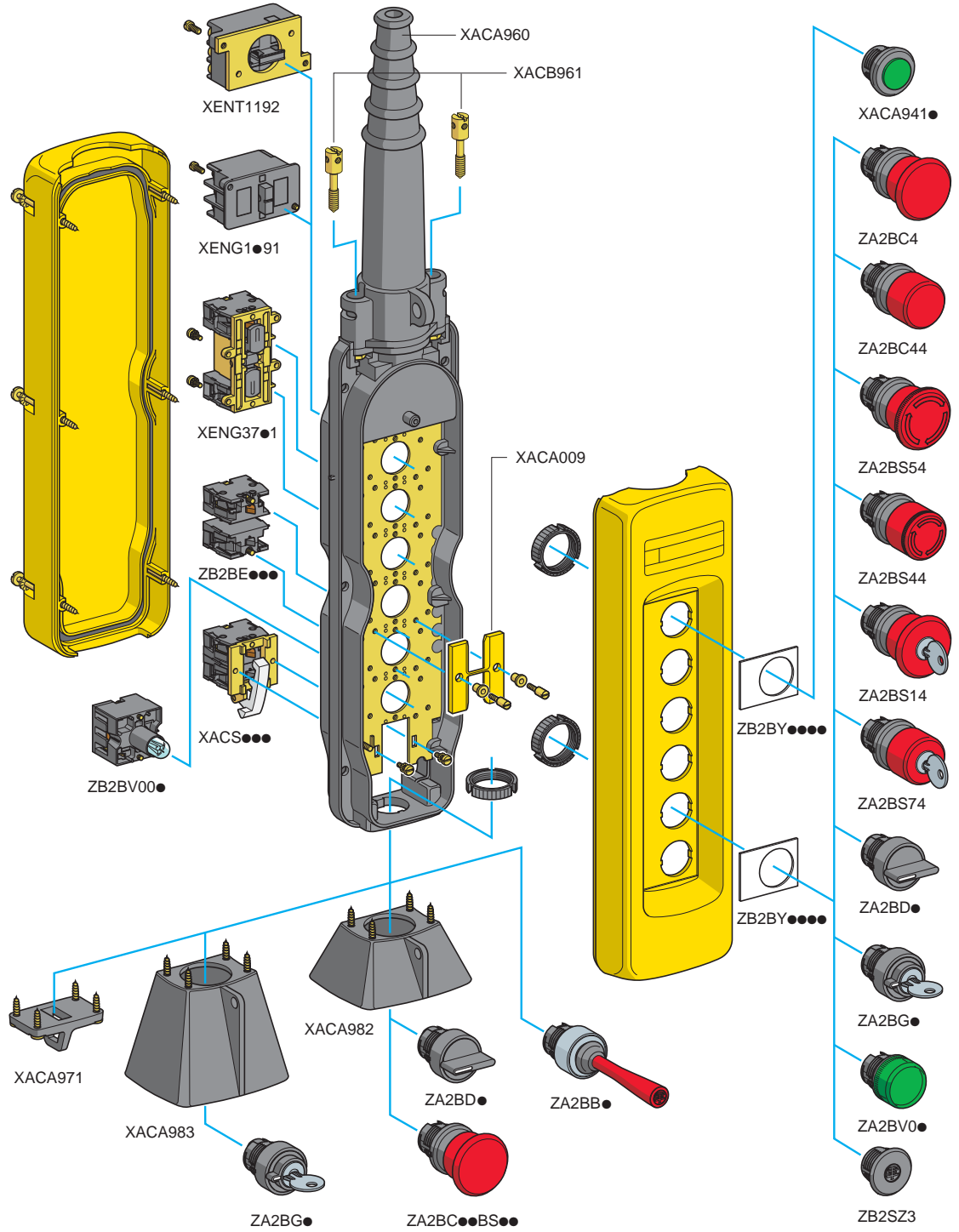
| Description   | Color | Catalog Number |
|---|-------|----------------|
| Direct supply base without lamp (for 6–120 V applications) (AC/DC)        | —     | ZB2BV006       |
| Resistor supply base with 130 V lamp (for 220–240 V applications) (AC/DC) | —     | ZB2BV007       |
| Pilot light operators for incandescent lamps                              | Green | ZA2BV03        |
|   | Red   | ZA2BV04        |
|   | Amber | ZA2BV05        |
|   | Blue  | ZA2BV06        |
|   | Clear | ZA2BV07        |
| Pilot light operators for LED lamps                                       | Green | ZA2BV033       |
|   | Red   | ZA2BV043       |
|   | Amber | ZA2BV053       |

**Table 20: Enclosure Accessories**

| Description   | Catalog Number |
|---|----------------|
| Blank hole plug   | ZB2SZ3         |
| Mechanical interlock (momentary). For use with XAC booted operators only. | XACA009        |
| Screw adapter for self-supporting cable                                   | XACB961        |
| Low suspension ring for single row station                                | XACA971        |
| Protective guard for bottom mounted mushroom head                         | XACA982        |
| Protective guard for bottom mounted selector switch or key switch         | XACA983        |
| Cable sleeve (XACA20*)—pistol grip style                                  | XACA913        |
| Cable sleeve (XACA**)   | XACA960        |

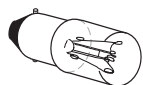
# Pendant Stations Type XACA Specifications

Figure 3: Exploded View

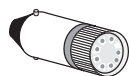


## Pendant Stations Type XACA Specifications

**Table 21: Lamps**



**DL1CE0\*\*  
(Incandescent)**



**DL1CJUS\*\*\*\*  
(LED)**

| Type   | Voltage (AC/DC) | Watts | Catalog Number |
|--|-----------------|-------|----------------|
| Replacement Bulbs<br>Type BA9s<br>Incandescent | 6               | 1.2   | DL1CB006       |
|  | 12              | 2.0   | DL1CE012       |
|  | 24              | 2.0   | DL1CE024       |
|  | 48              | 2.4   | DL1CE048       |
|  | 130             | 2.6   | DL1CE130       |

| Type                                       | Color | Voltage     | Catalog Number |
|--|-------|-------------|----------------|
| LED, BA9s Base for<br>Direct Supply Blocks | Green | 6 Vac/Vdc   | DL1CJUS0063    |
|  | Red   | 6 Vac/Vdc   | DL1CJUS0064    |
|  | Amber | 6 Vac/Vdc   | DL1CJUS0065    |
|  | Green | 12 Vac/Vdc  | DL1CJUS0123    |
|  | Red   | 12 Vac/Vdc  | DL1CJUS0124    |
|  | Amber | 12 Vac/Vdc  | DL1CJUS0125    |
|  | Green | 24 Vac/Vdc  | DL1CJUS0243    |
|  | Red   | 24 Vac/Vdc  | DL1CJUS0244    |
|  | Amber | 24 Vac/Vdc  | DL1CJUS0245    |
|  | Green | 120 Vac/Vdc | DL1CJUS1203    |
|  | Red   | 120 Vac/Vdc | DL1CJUS1204    |
|  | Amber | 120 Vac/Vdc | DL1CJUS1205    |

**Table 22: PVC Standard Legend Plates 30 x 40 mm**



| Text [1]       | Catalog Number | Text [1]      | Catalog Number |
|----------------|----------------|---------------|----------------|
| Bridge Forward | ZB2BY2343      | Off           | ZB2BY2312      |
| Bridge Reverse | ZB2BY2344      | On            | ZB2BY2311      |
| Close          | ZB2BY2314      | Off On        | ZB2BY2367      |
| Down           | ZB2BY2308      | Open          | ZB2BY2313      |
| Emergency Stop | ZB2BY2330      | Open Close    | ZB2BY2376      |
| Fast           | ZB2BY2328      | Open-O-Close  | ZB2BY2388      |
| Forward        | ZB2BY2305      | Out           | ZB2BY2339      |
| For Rev        | ZB2BY23        | Power On      | ZB2BY2326      |
| For-O-Rev      | ZB2BY2384      | Raise         | ZB2BY2335      |
| Hand Off Auto  | ZB2BY2387      | Reset         | ZB2BY2323      |
| High           | ZB2BY2338      | Reverse       | ZB2BY2306      |
| High Low       | ZB2BY2369      | Right         | ZB2BY2309      |
| Hoist Down     | ZB2BY2342      | Run           | ZB2BY2334      |
| Hoist Up       | ZB2BY2341      | Slow          | ZB2BY2327      |
| In             | ZB2BY2503      | Start         | ZB2BY2303      |
| Inch           | ZB2BY2321      | Stop          | ZB2BY2304      |
| Jog For        | ZB2BY2381      | Stop Start    | ZB2BY2366      |
| Jog Rev        | ZB2BY2380      | Trolley Right | ZB2BY2345      |
| Jog Run        | ZB2BY2365      | Trolley Left  | ZB2BY2346      |
| Left           | ZB2BY2310      | Up            | ZB2BY2307      |
| Low            | ZB2BY2336      | Up Down       | ZB2BY2370      |
| Lower          | ZB2BY2337      | Up-O-Down     | ZB2BY2389      |
| Man Auto       | ZB2BY2372      |               |                |

<sup>1</sup> All nameplates are black with white lettering except "Stop", "Emergency Stop", and "Reset," which are red with white lettering. For black "Reset," change the final digit of the catalog number to 2.

**Table 23: PVC Blank or Custom Engraved Legend Plates, 30 x 40 mm**

| Type                    | Description                      | Catalog Number |
|-------------------------|----------------------------------|----------------|
| PVC Blank Legend        | Black or red background          | ZB2BY2101      |
|                         | Yellow or white background       | ZB2BY4101      |
| PVC Custom Engraved [1] | Black background, white letters  | ZB2BY2002      |
|                         | Red background, white letters    | ZB2BY2004      |
|                         | White background, black letters  | ZB2BY4001      |
|                         | Yellow background, black letters | ZB2BY4005      |

<sup>1</sup> Please specify lettering when ordering. Maximum of two lines with 11 characters on each line (including spaces).

**Pendant Stations**  
**Type XACA Worksheet**

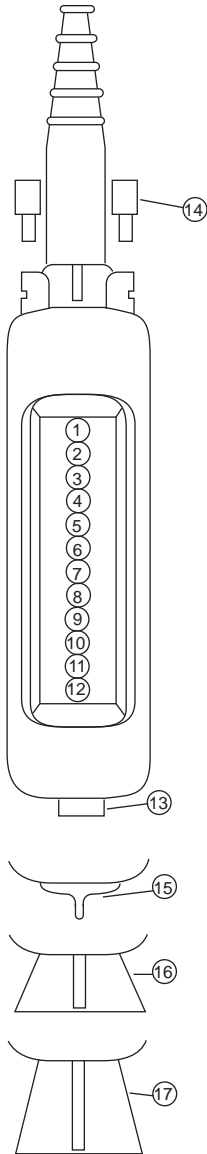
**Type XACA Worksheet**

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.

**XACA Order Guide Instructions**

Custom built pendant stations

1. Determine the number of operators needed, then choose an enclosure with a corresponding number of holes.
2. Select the type of operator, contact block, and appropriate nameplate for each function required. Refer to pages 8–11.
3. Check for special functions that may be required. These items could include mechanical interlocks, adapters for self-supporting cable, lower support rings, protective guards, etc.



| Catalog number of enclosure |   | XACA <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |                                       |  |
|-----------------------------|---|---|---------------------------------------|--|
| Functions (optional)        | Mechanical interlock (draw a vertical line between the 2 units to be interlocked [1]) | 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  |   |                                       |  |

**Mechanical Interlock (XACA009)**

<sup>1</sup> Mechanical interlock XACA009

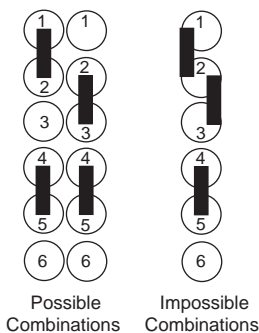
Number of XACA009 required

**Unit mounted in base of station (facing downwards)**

|  |    |  |  |
|--|----|--|--|
|  | 13 |  |  |
|--|----|--|--|

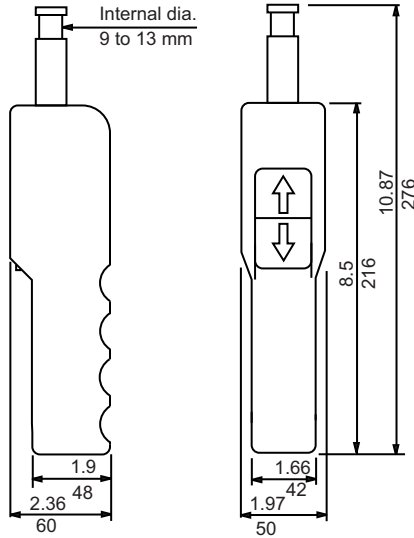
**Attachments**

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

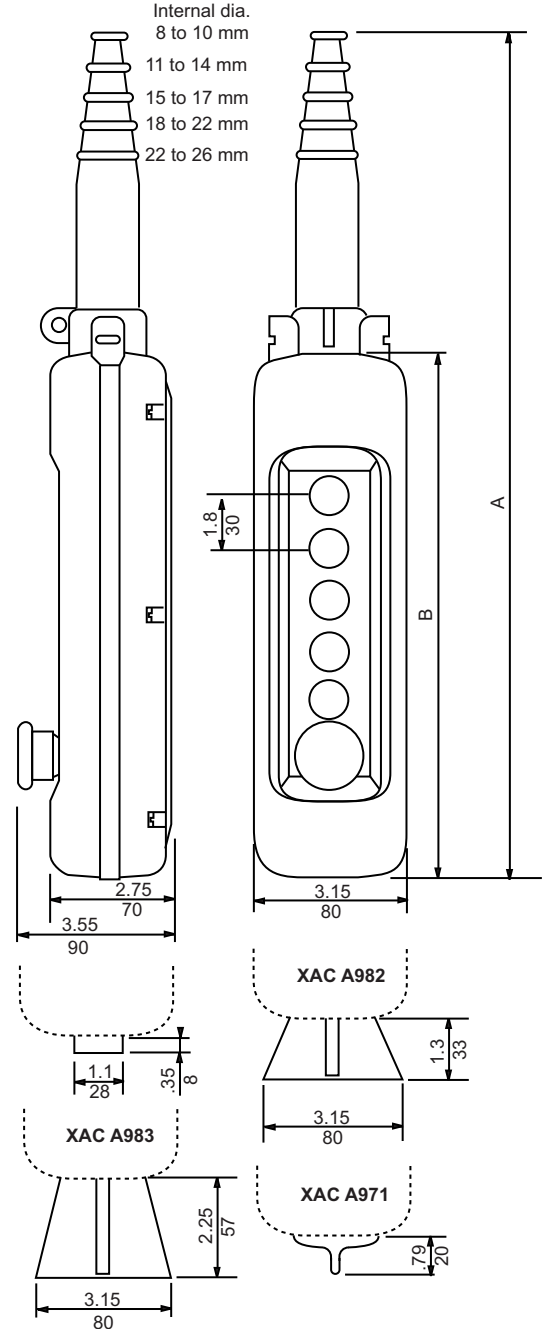


Type XACA Dimensions

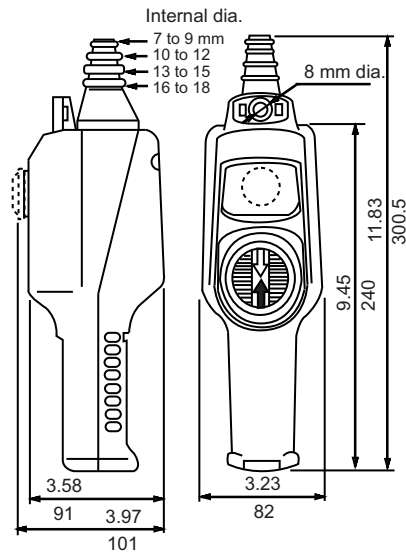
**Small Hoist Type**  
XACA201, A205, and A207



**General Purpose Type**  
XACA••••

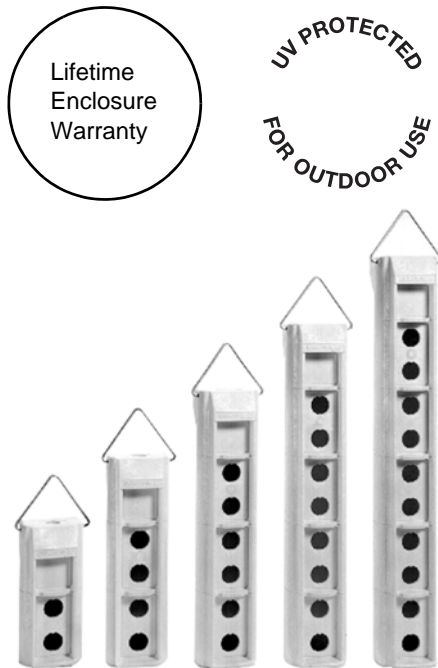


**Small Hoist**  
XACD



| Dimension | Number of Holes |     |       |     |       |     |       |     |       |     |       |     |
|-----------|-----------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|           | 2               |     | 3     |     | 4     |     | 6     |     | 8     |     | 12    |     |
|           | in.             | mm  | in.   | mm  | in.   | mm  | in.   | mm  | in.   | mm  | in.   | mm  |
| A         | 15.00           | 380 | 15.00 | 380 | 17.33 | 440 | 19.70 | 500 | 22.10 | 560 | 26.78 | 680 |
| B         | 7.50            | 190 | 7.50  | 190 | 9.85  | 250 | 12.20 | 310 | 14.57 | 370 | 19.30 | 490 |

## Pendant Stations Type SKYP General Information





## Type SKYP General Information

This line of pendant stations consists of polymeric enclosures (2–10 units), push button units (1–5 speed), and laminated legend plates. All enclosures have an extra single-unit space near the top that permits the installation of a toggle switch, a Type SK operator or pilot light, or a warning label (see Table 29 on page 15). All enclosures come standard with a stainless-steel hanger bracket and internal strain-relief post. The enclosures are yellow with a threaded opening in the top. The complete line is UL Listed and CSA certified, with NEMA Type environmental ratings 1, 2, 3, 3R, 4, 4X, and 12 (NEMA 4 only with legend plates installed). To ensure Type 4X and 13 integrity, use only Type 4X and 13 operators or closing plates.

There is a 10% charge for assembly. To place a custom pendant order, use the worksheet on 18 as a guide. Orders must be placed through the Product Selector in Quote to Cash.

## Type SKYP Specifications

**Table 24: Type SKYP Specifications**

|                              |  |  |
|------------------------------|--|--|
| <b>Electrical Ratings</b>    | <b>Types SKRU2–SKRU5:</b> AC = NEMA / UL B300; DC = NEMA / UL P600<br><b>Types SKRU1, 10, 11:</b> AC = NEMA / UL A600; DC = NEMA / UL P600 |  |
| <b>Enclosure Type</b>        | UL Type 1, 2, 3, 3R, 4, 4X, 12, and 13   |  |
| <b>Operating Temperature</b> | -30 °C to +60 °C (-13 °F to +140 °F)   |  |
| <b>Storage Temperature</b>   | -40 °C to +70 °C (-40 °F to +158 °F)   |  |
| <b>Housing Material</b>      | Polycarbonate  |  |
| <b>Cable Entry</b>           | 1/2" NPT   |  |
| <b>Approvals</b>             |  File E78403<br>CCN NKCR                                |  File LR 25490<br>Class 3211 03 |

**Table 25: Electrical Contact Ratings (Types SKRU2 through SKRU5)**

| AC—NEMA / UL Type B300 |                             |      |       |     |                             |  |
|------------------------|-----------------------------|------|-------|-----|-----------------------------|--|
| Volts [1]              | Inductive, 35% Power Factor |      |       |     | Continuous Carrying Amperes | Resistive, 75% Power Factor<br>Make, Break, and<br>Continuous Carrying Amperes |
|                        | Make                        |      | Break |     |                             |  |
|                        | A                           | VA   | A     | VA  |                             |  |
| 120                    | 30                          | 3600 | 3     | 360 | 5                           | 5  |
| 240                    | 15                          | 3600 | 1.5   | 360 | 5                           | 5  |

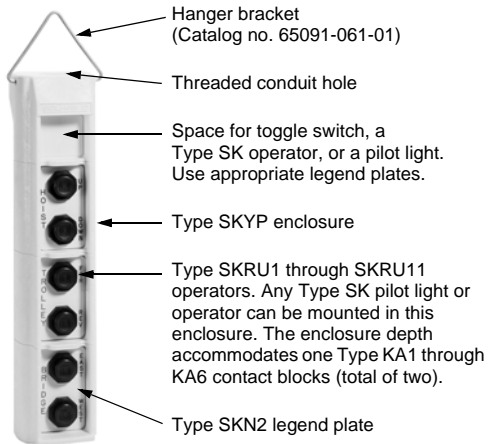
<sup>1</sup> OSHA Regulation, Section 1910.170 Overhead and Gantry Cranes, limits the voltage at pendant push buttons to 150 Vac or 300 Vdc.

**Table 26: Electrical Contact Ratings (Types SKRU1, 10, and 11)**

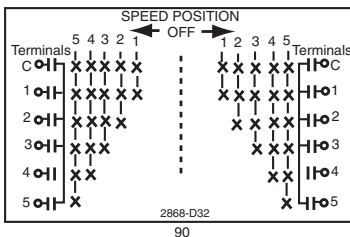
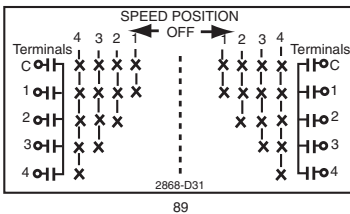
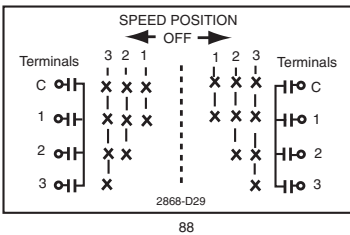
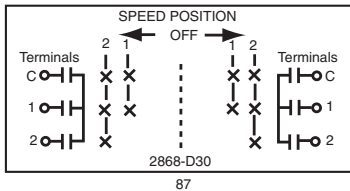
| AC—NEMA / UL Type A600 |                             |                  |                                |   | DC—Standard Duty, NEMA / UL Type P600 |                           |                                   |
|------------------------|-----------------------------|------------------|--------------------------------|---|---------------------------------------|---------------------------|-----------------------------------|
| Volts [1]              | Inductive, 35% Power Factor |                  |                                | Resistive,<br>75% Power Factor<br>Make, Break, and Continuous<br>Carrying Amperes | Volts                                 | Inductive and Resistive   |                                   |
|                        | Make<br>Amperes             | Break<br>Amperes | Continuous<br>Carrying Amperes |   |                                       | Make and<br>Break Amperes | Continuous<br>Carrying<br>Amperes |
|                        |                             |                  |                                | 120   |                                       |                           |                                   |
| 240                    | 30                          | 3                | 10                             | 10  | 240                                   | 0.55                      | 10                                |
| 480                    | 15                          | 1.5              | 10                             | 10  | —                                     | —                         | —                                 |
| 600                    | 12                          | 1.2              | 10                             | 10  | 600                                   | 0.2                       | 10                                |

<sup>1</sup> OSHA Regulation, Section 1910.170 Overhead and Gantry Cranes, limits the voltage at pendant push buttons to 150 Vac or 300 Vdc.

# Pendant Stations Type SKYP Specifications

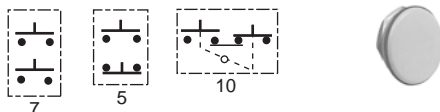


**Figure 4: Multispeed Contact Symbols (X = Contact Closed)**



Single Speed Contact Symbols

Closing Plate Type SK52



**Table 27: Enclosures**

| Button Size | Conduit Entrance Size | Enclosure Only [1, 2] |
|-------------|-----------------------|-----------------------|
|             |                       | Class 9001 Type       |
| 2           | ¾"-14 NPT             | SKYP2                 |
| 4           | ¾"-14 NPT             | SKYP4                 |
| 6           | 1"-11½ NPT            | SKYP6                 |
| 8           | 1¼"-11½ NPT           | SKYP8                 |
| 10          | 1¼"-11½ NPT           | SKYP10                |

- Class 9001 SK push-to-test pilot lights, remote-test pilot lights, and potentiometers do not fit in these enclosures.
- Assembled pendant stations consist of an enclosure, operators, and legend plates. The price of the total station consists of the prices of the individual components, plus a 10% charge for assembly. To place a custom pendant order, use the worksheet on 18 as a guide. Orders must be placed through the Product Selector in Quote to Cash.

**Table 28: Push Button Units (2 Buttons per Unit)**

|  | Description                             | Contact Symbol (Figure 4) | Class 9001 Type [1] |
|--|---|---------------------------|---------------------|
|  | Single Speed—Momentary, Interlocked     | 7                         | SKRU1               |
|  | Single Speed—Momentary, Non-Interlocked | 5                         | SKRU10              |
|  | Single Speed—Maintained, Interlock      | 10                        | SKRU11              |
|  | Two Speed—Momentary, Interlocked        | 87                        | SKRU2               |
|  | Three Speed—Momentary, Interlocked      | 88                        | SKRU3               |
|  | Four Speed—Momentary, Interlocked       | 89                        | SKRU4               |
|  | Five Speed—Momentary, Interlocked       | 90                        | SKRU5               |

- Types SKRU 1, 10, and 11 include Type KA contact blocks. Types SKRU 2-5 are factory enclosed contact blocks. Boot for SKRU 2-5 = 9001KU37; boot for SKRU 1, 10, 11 = 9001KU1

**Table 29: Legend Plates**

|                 | Where Used   | Marking              | Class 9001 Type |
|-----------------|--|----------------------|-----------------|
|                 | For SKRU1 through SKRU11   | Blank-Blank          | SKN200 [1]      |
|                 |  | Hoist: Up-Down       | SKN201          |
|                 |  | Trolley: East-West   | SKN202          |
|                 |  | Trolley: Fwd.-Rev.   | SKN203          |
|                 |  | Trolley: North-South | SKN204          |
|                 |  | Bridge: Fwd.-Rev.    | SKN205          |
|                 |  | Bridge: East-West    | SKN206          |
|                 |  | Bridge: North-South  | SKN207          |
|                 |  | Start-Stop           | SKN208          |
|                 |  | Reset-Stop           | SKN209          |
|                 |  | Aux Hoist: Up-Down   | SKN210          |
| Power: On-Off   | SKN211   |                      |                 |
| Specify Marking | SKN299 [1]   |                      |                 |
|                 | With Toggle Switch [2] in Top Space of Enclosure                   | Blank                | SKN500 [3]      |
|                 |  | Off-On               | SKN544 [3]      |
|                 |  | On-Off               | SKN545 [3]      |
| Specify Marking | SKN599 [3]   |                      |                 |
|                 | With Type SK Operator or Pilot Light [4] in Top Space of Enclosure | Blank                | SKN100 [5]      |
|                 |  | On                   | SKN103          |
|                 |  | Off                  | SKN104          |
|                 |  | Emerg. Stop          | SKN105          |
|                 |  | Run                  | SKN124          |
|                 |  | Power On             | SKN138          |
|                 |  | Off-On               | SKN144          |
|                 |  | Specify Marking      | SKN199 [5]      |



- Maximum of 19 characters on each side.
- Available as Class 9001 Type SKSTS1—includes boot for NEMA Type 4X.
- Includes legend plate, gasket, and ground plate to be used with toggle switch.
- See Class 9001 Type SK on page 18.
- Tri-laminated legend plate with a yellow or red background on a black core.



# Pendant Stations


## Type SKYP Specifications

**Table 30: Non-Illuminated and Illuminated Push Buttons**

| Non-Illuminated   |  |   |            |                 | Illuminated   |  |   |                         |            |                          |
|---|--|---|------------|-----------------|---|--|---|-------------------------|------------|--------------------------|
|  | Description  | Color                                     | Color Code | Class 9001 Type |  | Description  | Color                                     | Color Code              | Voltage    | Class 9001 Type          |
|   | 2 Position   | Red                                       | R          | SKR9R           |   |  | 2 Position                                | Red                     | R          | 120 Vac/Vdc Full Voltage |
| Maintained Pull   | Red [1]  | R   | SKR9R05    |                 | Maintained Pull   | Red [1]  | R   | 24 Vac/Vdc Full Voltage | SKR9P55R05 |                          |
| Maintained Push   | Black<br>Red<br>Green<br>Blue<br>Yellow<br>White<br>Orange<br>Clear<br>Amber | B<br>R<br>G<br>L<br>Y<br>W<br>S<br>C<br>A | SKR9       |                 | Maintained Push   | Black<br>Red<br>Green<br>Blue<br>Yellow<br>White<br>Orange<br>Clear<br>Amber | —<br>R<br>G<br>L<br>Y<br>—<br>S<br>C<br>A | 24 Vac/Vdc Full Voltage | SKR9P55    |                          |

1 Red knob available with "Push Emergency Stop" printed on the red knob. See Table 36 footnote for additional options.

**Table 31: Pilot Lights—UL Types 4, 4X, 13 / NEMA 4, 4X, and 13**

|  | Description                                    | Voltage                          | Style                    | Class 9001 Type |               |             |         |
|---|--|----------------------------------|--------------------------|-----------------|---------------|-------------|---------|
|   |  |                                  |                          | Color Cap       |               |             |         |
|   |  |                                  |                          | Red Fresnel     | Green Fresnel | Other       | None    |
| 9001SKP1  | Standard Pilot Light (Fresnel color cap shown) | 110–120 V, 50–60 Hz              | Transformer              | SKP1R31         | SKP1G31       | SKP1 [1]    | SKP1    |
|   |  | 220–240 V, 50–60 Hz              | Transformer              | SKP7R31         | SKP7G31       | SKP7 [1]    | SKP7    |
|   |  | 24–28 Vac/Vdc                    | Full Voltage             | SKP35R31        | SKP35G31      | SKP35 [1]   | SKP35   |
|   |  | See Table 32 for other voltages. | Transformer or LED [2]   | SKP_R31 [3]     | SKP_G31 [3]   | SKP_ [1, 3] | SKP [3] |
|   |  |                                  | Full Voltage or Resistor | SKP_R31 [3]     | SKP_G31 [3]   | SKP_ [1, 3] | SKP [3] |

1 Add the color code from Table 33. Example: SKP1 with an amber color Fresnel cap = SKP1A31.  
 2 The cap must be the same color as the LED light module. For example, use a green color cap for a green LED.  
 3 See Table 32 for voltage assembly code.

**Table 32: Standard Light Modules for Pilot Lights**



| Voltage             | Description                              | Light Module    | Voltage Assembly Code | Rating  | Replacement Lamp |
|---------------------|--|-----------------|-----------------------|---------|------------------|
|                     |  | Class 9001 Type |                       |         | Catalog No.      |
| All                 | Full Voltage (without Bayonet Base Lamp) | KM40            | 40                    | —       | None             |
| 6 Vac/Vdc           | Full Voltage                             | KM31            | 31                    | 0.9 VA  | 2550101020       |
| 6 Vac/Vdc           | LED Red                                  | KM31LR          | 31LR                  | —       | 6508805201       |
| 6 Vac/Vdc           | LED Green                                | KM31LG          | 31LG                  | —       | 6508805203       |
| 6 Vac/Vdc           | LED Yellow                               | KM31LY          | 31LY                  | —       | 6508805202       |
| 12–14 Vac/Vdc       | Full Voltage                             | KM32            | 32                    | 1.2 VA  | 2550101037       |
| 12–14 Vac/Vdc       | LED Red                                  | KM32LR          | 32LR                  | —       | 6508805201       |
| 12–14 Vac/Vdc       | LED Green                                | KM32LG          | 32LG                  | —       | 6508805203       |
| 12–14 Vac/Vdc       | LED Yellow                               | KM32LY          | 32LY                  | —       | 6508805202       |
| 24–28 Vac/Vdc       | Full Voltage                             | KM35            | 35                    | 1.2 VA  | 2550101002       |
| 24–28 Vac/Vdc       | LED Red                                  | KM35LR          | 35LR                  | 0.28 VA | 6508805210       |
| 24–28 Vac/Vdc       | LED Green                                | KM35LG          | 35LG                  | 0.28 VA | 6508805212       |
| 24–28 Vac/Vdc       | LED Yellow                               | KM35LY          | 35LY                  | 0.28 VA | 6508805211       |
| 24–28 Vac/Vdc       | LED White                                | KM35LW          | 35LW                  | 0.28 VA | 6508805214       |
| 24–28 Vac/Vdc       | LED Blue                                 | KM35LL          | 35LL                  | 0.28 VA | 6508805213       |
| 110–120 V, 50–60 Hz | LED Red                                  | KM1LR           | 1LR                   | —       | 6508805201       |
| 110–120 V, 50–60 Hz | LED Green                                | KM1LG           | 1LG                   | —       | 6508805203       |
| 110–120 V, 50–60 Hz | LED Yellow                               | KM1LY           | 1LY                   | —       | 6508805202       |
| 110–120 V, 50–60 Hz | Transformer                              | KM1             | 1                     | 2.4 VA  | 2550101020       |
| 110–120 V, 50–60 Hz | Flashing                                 | KMF1            | F1                    | 0.85 VA | 2550101036       |
| 120 Vac/Vdc         | Resistor                                 | KM38            | 38                    | 3.0 VA  | 2550101027       |
| 120 Vac/Vdc         | Full Voltage                             | KM38            | 38                    | 3.0 VA  | 2550101027       |
| 120 Vac/Vdc         | LED Red                                  | KM38LR          | 38LR                  | 1.4 VA  | 6508805210       |
| 120 Vac/Vdc         | LED Green                                | KM38LG          | 38LG                  | 1.4 VA  | 6508805212       |

Continued on next page




## Pendant Stations Type SKYP Specifications





**Table 32: Standard Light Modules for Pilot Lights (continued)**


| Voltage             | Description                              | Light Module    | Voltage Assembly Code | Rating | Replacement Lamp |
|---------------------|--|-----------------|-----------------------|--------|------------------|
|                     |  | Class 9001 Type |                       |        | Catalog No.      |
| All                 | Full Voltage (without Bayonet Base Lamp) | KM40            | 40                    | —      | None             |
| 120 Vac/Vdc         | LED Yellow                               | KM38LY          | 38LY                  | 1.4 VA | 6508805211       |
| 120 Vac/Vdc         | LED White                                | KM38LW          | 38LW                  | 1.4 VA | 6508805214       |
| 120 Vac/Vdc         | LED Blue                                 | KM38LL          | 38LL                  | 1.4 VA | 6508805213       |
| 220–240 V, 50–60 Hz | Transformer                              | KM7             | 7                     | 2.0 VA | 2550101020       |
| 220–240 V, 50–60 Hz | LED Red                                  | KM7LR           | 7LR                   | —      | 6508805201       |
| 220–240 V, 50–60 Hz | LED Green                                | KM7LG           | 7LG                   | —      | 6508805203       |
| 220–240 V, 50–60 Hz | LED Yellow                               | KM7LY           | 7LY                   | —      | 6508805202       |

**Table 33: Color Cap Codes**

| Color  | Plastic Fresnel | Plastic Domed   |
|--------|-----------------|---|
|        |                 |  |
| Amber  | A31             | A9  |
| Clear  | C31             | C9  |
| Green  | G31             | G9  |
| Red    | R31             | R9  |
| Yellow | Y31             | Y9  |

**Table 34: Contact Blocks**


| Description   | Symbol <sup>[1]</sup>   | Class 9001 Type |
|---|---|-----------------|
| Clear Color Cover  |  | KA1             |
| Red Color Cover    |  | KA3             |

<sup>1</sup> Both N.C. contacts are direct opening. 

### Shallow Depth Light Modules For Type SK Control Units

- UL Listed and CSA certified
- LED light modules use a lamp with a 7-element LED cluster that provides illumination similar to incandescent illumination.
- With LED light modules, use either a clear color cap or a cap with the same color as the LED.

**Table 35: Shallow Depth Light Modules For Type SK Control Units**

|  | Voltage         | Description  | For Use With Single Lamp Ill. Operators as Indicated | Light Module Class 9001 Type | Voltage Assembly Code | Rating (VA) | Replacement Lamps |             |
|---|-----------------|--------------|--|------------------------------|-----------------------|-------------|-------------------|-------------|
|   |                 |              |  |                              |                       |             | ANSI No.          | Catalog No. |
|   | 24–28 Vac/Vdc   | Full Voltage | All 9001 SK  | KM55                         | 55                    | 1.2         | 757               | 2550101002  |
|   |                 | LED Red      |  | KM55LR                       | 55LR                  | 0.5         |                   | 6508805204  |
|   |                 | LED Green    |  | KM55LG                       | 55LG                  | 0.5         |                   | 6508805206  |
|   |                 | LED Yellow   |  | KM55LY                       | 55LY                  | 0.5         |                   | 6508805205  |
|   | 110–120 Vac/Vdc | Full Voltage | All 9001 SK  | KM58                         | 58                    | 3.0         | 120MB             | 2550101027  |
|   |                 | LED Red      |  | KM58LR                       | 58LR                  | 0.5         |                   | 6508805204  |
|   |                 | LED Green    |  | KM58LG                       | 58LG                  | 0.5         |                   | 6508805206  |
|   |                 | LED Yellow   |  | KM58LY                       | 58LY                  | 0.5         |                   | 6508805205  |


**Table 36: Maximum Current Ratings For Control Circuit Contacts: Types KA1–KA6, KA21–25, KA31–35, KA1G–KA6G <sup>[1]</sup>**

| Volts   | AC  |         |       |     |                             |   | Volts   | DC                                  |      |   |         |                             |
|---------|---|---------|-------|-----|-----------------------------|---|---------|-------------------------------------|------|---|---------|-----------------------------|
|         | Inductive (NEMA / UL Type A600), 35% Power Factor |         |       |     | Continuous Carrying Amperes | Resistive, 75% Power Factor Make, Break, and Continuous Amperes |         | Inductive and Resistive (NEMA Q600) |      |   |         |                             |
|         | Make  |         | Break |     |                             |   |         | Make and Break                      |      |   | KA5 KA6 | Continuous Carrying Amperes |
| Amperes | VA  | Amperes | VA    | KA1 | KA2 KA3                     | KA4   | KA5 KA6 | Continuous Carrying Amperes         |      |   |         |                             |
| 120     | 60  | 7200    | 6.0   | 720 | 10                          | 10  | 125     | 0.55                                | 0.55 | — | —       | 2.5                         |
| 240     | 30  | 7200    | 3.0   | 720 | 10                          | 10  | 250     | 0.27                                | 0.27 | — | —       | 2.5                         |
| 480     | 15  | 7200    | 1.5   | 720 | 10                          | 10  | —       | —                                   | —    | — | —       | —                           |
| 600     | 12  | 7200    | 1.2   | 720 | 10                          | 10  | 600     | 0.10                                | 0.10 | — | —       | 2.5                         |

<sup>1</sup> For additional Type SK push button operators (illuminated and non-illuminated), light modules, and contact blocks, see catalog 9001CT9601, *Push Button and Operator Interface Specifiers Guide*. All illuminated push button operators must use a shallow depth light module listed above. Only standard pilot lights and non-illuminated selector switches can be used in Type SKYP enclosures.

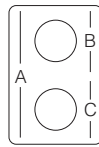
# Pendant Stations Type SKYP Worksheet

## Type SKYP Worksheet

|   |                         |   |
|---|-------------------------|---|
|  | <b>Control Products</b> | Use this worksheet to assist in component selection.<br>SKYP Custom Pendant orders must be placed through the Product Selector in Quote to Cash.<br>There is a 10% charge for assembly. |
| Class <b>9001</b>   |                         | Type <b>SKYP -</b> _____  |

1. Operator or Closing Plate.  
Example: SKRU1
2. Legend Plate Type Number  
Example: SKN201
3. Legend Plate Marking ▲  
Used Only if Special Marking is Required  
Example:  
Line 2 = SKN299  
Line 3 = A.) Hoist  
          B.) FWD  
          C.) REV

When the operator and the legend plate use 2 adjacent holes, specify the same catalog numbers in both locations. Example:



|   |        |
|---|--------|
| 1 | SKRU1  |
| 2 | SKN201 |
| 3 |        |

|   |        |
|---|--------|
| 1 | SKRU1  |
| 2 | SKN201 |
| 3 |        |

### Enclosures—NEMA 4X, 13

| Button Size | Conduit Entrance Size | Enclosure for Assembled Station ▲ |
|-------------|-----------------------|-----------------------------------|
|             |                       | Type                              |
| 2           | ¾" -14 NPT            | SKYP20                            |
| 4           | ¾" -14 NPT            | SKYP40                            |
| 6           | 1" -14 NPT            | SKYP60                            |
| 8           | 1¼" -11½"             | SKYP80                            |
| 10          | 1¼" -11½"             | SKYP100                           |

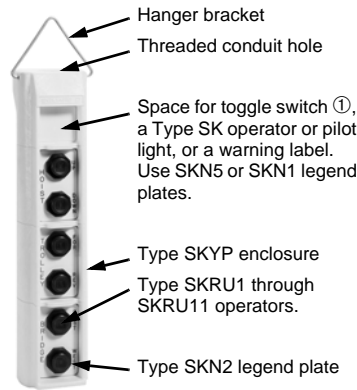
▲ Assembled pendant stations consist of an enclosure, operators, and legend plates. The price of the total station consists of the price of each individual component plus a 10% charge for assembly.

### Push Button Units—NEMA / UL 4X, 13

| Number of Buttons per Unit | Description                             | Contact Symbol | Type   |
|----------------------------|---|----------------|--------|
| 2                          | Single Speed—Momentary, Interlocked     | 7              | SKRU1  |
| 2                          | Single Speed—Momentary, Non-Interlocked | 5              | SKRU10 |
| 2                          | Single Speed—Maintained, Interlocked    | 10             | SKRU11 |
| 2                          | Two Speed—Momentary, Interlocked        | 87             | SKRU2  |
| 2                          | Three Speed—Momentary, Interlocked      | 88             | SKRU3  |
| 2                          | Four Speed—Momentary, Interlocked       | 89             | SKRU4  |
| 2                          | Five Speed—Momentary, Interlocked       | 90             | SKRU5  |

### CLOSING PLATE

|      |
|------|
| Type |
| SK52 |



### Legend Plates—NEMA / UL 4X, 13

| Where Used   | Marking                          | Type      |
|--|----------------------------------|-----------|
| For SKRU1 through SKRU11   | Blank-Blank                      | SKN200 ④  |
|  | Hoist: Up-Down                   | SKN201    |
|  | Trolley: East-West               | SKN202    |
|  | Trolley: Fwd.-Rev.               | SKN203    |
|  | Trolley: North-South             | SKN204    |
|  | Bridge: Fwd.-Rev.                | SKN205    |
|  | Bridge: East-West                | SKN206    |
|  | Bridge: North-South              | SKN207    |
|  | Start-Stop                       | SKN208    |
|  | Reset-Stop                       | SKN209    |
|  | Specify Marking                  | SKN299 ④  |
| With Toggle Switch ① in Top Space of Enclosure                   | Blank                            | SKN500 ②  |
|  | Off-On                           | SKN544 ②  |
|  | On-Off                           | SKN545 ②  |
|  | Specify Marking                  | SKN599 ②  |
| With Type SK Operator ▲ or Pilot Light in Top Space of Enclosure | Blank                            | SKN100 ③  |
|  | On                               | SKN103    |
|  | Off                              | SKN104    |
|  | Emerg. Stop                      | SKN105    |
|  | Run                              | SKN125    |
|  | Power On                         | SKN138    |
|  | Off-On                           | SKN144    |
|  | Specify Marking                  | SKN199 ③  |
|  | Specify Marking (Red Background) | SKN199R ③ |

- ① Available as 9001SKSTS1
- ② Includes legend plate, gasket, and ground plate to be used with toggle switch.
- ③ Tri-laminated legend plate with a yellow or red background on a black core.
- ④ 19 characters each side.
- ▲ Class 9001 Type SK push-to-test pilot lights and remote test pilot lights will not fit in these enclosures.

### Type Number Key

|   |       |
|---|-------|
| 1 | _____ |
| 2 | _____ |
| 3 | _____ |

|   |          |
|---|----------|
| 1 | _____    |
| 2 | _____    |
| 3 | A) _____ |
|   | B) _____ |
|   | C) _____ |

|   |          |
|---|----------|
| 1 | _____    |
| 2 | _____    |
| 3 | A) _____ |
|   | B) _____ |
|   | C) _____ |

|   |          |
|---|----------|
| 1 | _____    |
| 2 | _____    |
| 3 | A) _____ |
|   | B) _____ |
|   | C) _____ |

|   |          |
|---|----------|
| 1 | _____    |
| 2 | _____    |
| 3 | A) _____ |
|   | B) _____ |
|   | C) _____ |

|   |          |
|---|----------|
| 1 | _____    |
| 2 | _____    |
| 3 | A) _____ |
|   | B) _____ |
|   | C) _____ |

|   |          |
|---|----------|
| 1 | _____    |
| 2 | _____    |
| 3 | A) _____ |
|   | B) _____ |
|   | C) _____ |

Space for a toggle switch ①, a Type SK operator or pilot light, or a warning label. Use SKN5 or SKN1 legend plates.

Type SKRU1 through SKRU11 operators or Type SK operators and Type SKN2 legend plate.

## Type SKYP Dimensions

Class 9001 Type SK push-to-test pilot lights and remote-test pilot lights and potentiometers **do not** fit in these enclosures. Standard pilot lights **do** fit in these enclosures. For illuminated operators in the SKYP pendant station, the shallow depth light module (9001KM55 or 9001KM58) must be used.

Figure 5: Type SKYP Dimensions

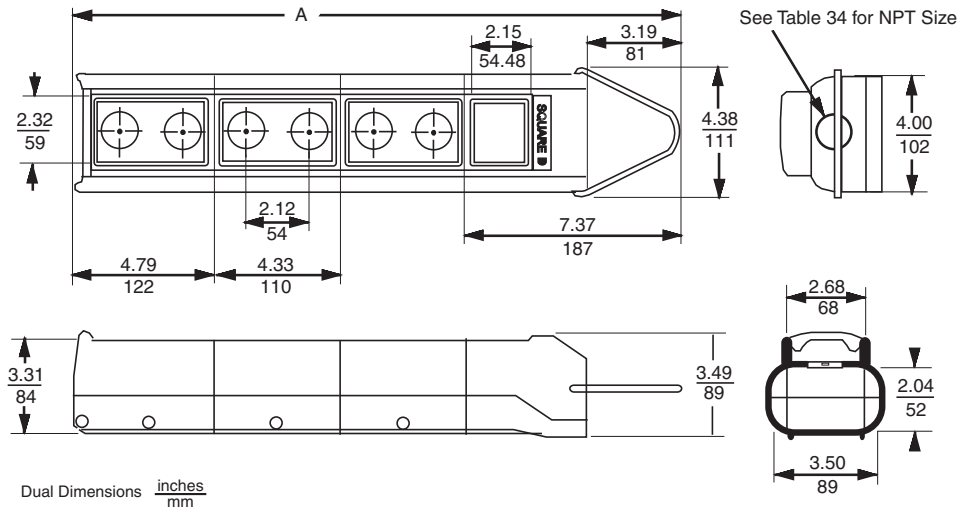


Table 37: Approximate Dimensions

| Number of Holes<br>Per Unit | Dimension A |     | Conduit Opening<br>NPT |
|-----------------------------|-------------|-----|------------------------|
|                             | in.         | mm  |                        |
| 2                           | 11.70       | 297 | ¾" -14                 |
| 4                           | 16.03       | 407 | ¾" -14                 |
| 6                           | 20.36       | 517 | 1" -11 ½               |
| 8                           | 24.69       | 627 | 1¼" -11½               |
| 10                          | 29.02       | 737 | 1¼" -11½               |

## Pendant Stations Type SKYP Dimensions

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**Pendant Stations  
Type SKYP Dimensions**

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