

# 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)

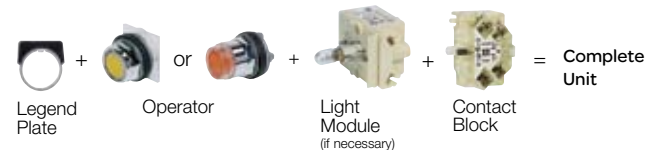
| Operator Type                              |               | Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13 |               |
|--|---------------|--|---------------|
| Contact                                    | Color         | Non-illuminated                                |               |
| <b>Full Guard</b>                          |               |  |               |
|  | 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.                              | Ⓞ             | 9001KR1UH13**                                  |               |
| <b>No Guard</b>                            |               |  |               |
|  | 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.                              | Ⓞ             | 9001KR3UH13**                                  |               |
| <b>Extended Guard</b>                      |               |  |               |
|  | 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.                              | Ⓞ             | 9001KR2UH13**                                  |               |
| <b>Mushroom Button 1 3/4 in. Dia. Head</b> |               |  |               |
|  | None          | ●  | 9001KR4B      |
|  | 1 N.O.        | ●  | 9001KR4GH5    |
|  | 1 N.C.        | ●  | 9001KR4RH6    |
|  | 1 N.O./1 N.C. | (4)  | 9001KR4(4)H13 |
| <b>Mushroom Button 2 1/4 in. Dia. Head</b> |               |  |               |
|  | 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        |
| <b>Full Guard</b>                          |               |  |                    |
|  | 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   |
| <b>No Guard</b>                            |               |  |                    |
|  | 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   |
| <b>Extended Guard</b>                      |               |  |                    |
|  | 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 |
| <b>Mushroom Button 1 3/4 in. Dia. Head</b> |               |  |                    |
|  | 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 |
| <b>Mushroom Button 2 1/4 in. Dia. Head</b> |               |  |                    |
|  | 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                                |               |
| <b>3 Position Mom.-Push Maint.-Neutral Mom.-Pull</b>              |                 |  |               |
|   | 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 |
| <b>2 Position Maint.-Push Maint.-Pull</b>                         |                 |  |               |
|   | None            | ●  | 9001KR9A      |
|   | 1 N.C.          | ●  | 9001KR9RH6**  |
|   | 1 N.O./1 N.C.   | ●  | 9001KR9GH13   |
|   | 1 N.C./N.C.E.C. | (2)  | 9001KR9(2)H13 |
| <b>2 Position, Trigger-Action, Turn-to-Release Emergency Stop</b> |                 |  |               |
|   | None            | ●  | 9001KR16      |
|   | 2 N.O./2 N.C.   | ●  | 9001KR16H2    |
|   | 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       |
| <b>3 Position Mom.-Push Maint.-Neutral Mom.-Pull</b> |                 |  |                   |
|  | 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 |
| <b>2 Position Maint.-Push Maint.-Pull</b>            |                 |  |                   |
|  | 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: ●, A: ● and C: ●. Available in gloved knobs (add F to color code. Example: FB for Black).

## Type K Pilot Lights

| Pilot Light Type    | Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13 |               |
|---------------------|--|---------------|
|                     | Color  |               |
| <b>Standard</b>     |  |               |
|                     | ●  | 9001KP(1)A31  |
|                     | ●  | 9001KP(1)R31  |
|                     | ●  | 9001KP(1)G31  |
|                     | (4)  | 9001KP(1)(4)  |
| <b>Push-to-test</b> |  |               |
|                     | ●  | 9001KT(1)A31  |
|                     | ●  | 9001KT(1)R31  |
|                     | ●  | 9001KT(1)G31  |
|                     | (4)  | 9001KT(1)(4)  |
| <b>Remote Test</b>  |  |               |
|                     | ●  | 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→C31→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 |                       |
|----------------------------------|--|--|-----------------------|
| 0 = Open Contact<br>1 = Contact  |  | Non-illuminated                                | illuminated           |
| Description                      | Sequence                                 | Color  | Color                 |
| <b>2 Position</b>                |  |  |                       |
| Off-On                           | None                                     | ● 9001KS11B                                    | ● 9001K11J(1)R        |
|                                  | 0 1                                      | (2) 9001KS11(2)H36                             | ● 9001K11J(1)GH36     |
| One contact closed per position  | 0 1                                      | ● 9001KS11BH13                                 | (2) 9001K11J(1)(2)H13 |
|                                  | 1 0                                      |  |                       |
| <b>3 Position</b>                |  |  |                       |
| Hand-Off-Auto                    | None                                     | ● 9001KS43B                                    | ● 9001K43J(1)R        |
|                                  | 1 0 0<br>0 0 1                           | ● 9001KS43BH13                                 | ● 9001K43J(1)GH13     |
| One contact closed per position  | 1 0 0<br>0 1 0<br>0 0 1                  | ● 9001KS46BH28                                 | (2) 9001K46J(1)(2)H28 |
|                                  | 0 0 1<br>1 0 0<br>0 1 0<br>0 0 1         | (2) 9001KS46(2)H28                             | ● 9001K46J(1)GH28     |
| Two contacts closed per position | 1 0 0<br>0 1 0<br>0 0 1                  | ● 9001KS46RH103                                | — —                   |
|                                  | 0 1 0<br>1 0 0<br>0 0 1                  | ● 9001KS46GH103                                | ● 9001K46J(1)GH103    |
| 4 Position                       | 1 1 0<br>0 1 1                           | ● 9001KS42BH7                                  | ● 9001K42J(1)GH7      |
|                                  | None                                     | ● 9001KS88B                                    | ● 9001K88J(1)R        |
| One contact closed per position  | 1 0 0 0<br>0 1 0 0<br>0 0 1 0<br>0 0 0 1 | ● 9001KS88BH2                                  | ● 9001K88J(1)GH2      |
|                                  | 0 0 1 0<br>0 0 0 1                       | (2) 9001KS88(2)H2                              | (2) K88J(1)(2)H2      |

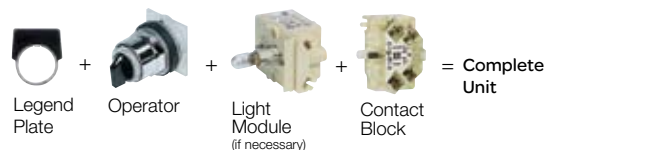
- (1) Insert light module assembly code. See light modules table for selections.
- (2) Color codes for Type KS illuminated and non-illuminated selector switch: B: ●, L: ●, G: ●, S: ●, R: ●, W: ●, Y: ●, A: ● and C: ●. Available in gloved knobs (add F to color code. Example: FB for Black).

## 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) |
|-------------------------|--------------|----------|-------------------|
|                         | 110-120 VAC  | 9001KM1  | 1                 |
|                         | 220-240 VAC  | 9001KM7  | 7                 |
|                         | 380-480 VAC  | 9001KM5  | 5                 |
|                         | 550-600 VAC  | 9001KM6  | 6                 |
| <b>Full Voltage (2)</b> |              |          |                   |
|                         | 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 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<br>Push to Stop | 9001KN279         | 9001KN379         |
| Specify Mrkg.                 | 9001KN299         | 9001KN399         |

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

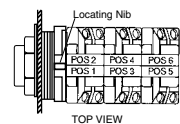
## Fingersafe Contact Blocks

|  | 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 |         |         |         |         |  |
|----------|---------|----------|---------|---------|---------|---------|--|
| 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 |  |
| H24      | 9001KA1 | 9001KA2  | —       | —       | —       | —       |  |
| H25      | 9001KA5 | 9001KA3  | —       | —       | —       | —       |  |
| 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.

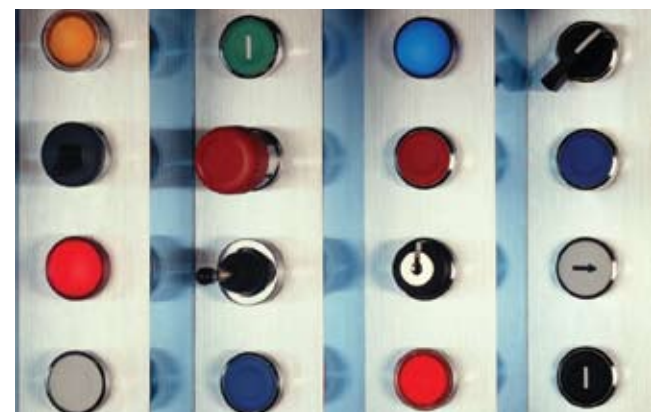
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## Selection Guide

# 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

|                                   |         |                    |
|-----------------------------------|---------|--------------------|
| <b>Available Size(s)</b>          |         |                    |
| <b>2 Position Momentary</b>       |         |                    |
| 30 mm                             | ZB4BC24 | ZB4BC44            |
| 40 mm                             | ZB4BC2  | ZB4BC4             |
| 60 mm                             | ZB4BR2  | ZB4BR4             |
| <b>Push Maintain/Pull Release</b> |         |                    |
| 40 mm                             | ZB4BT2  | ZB4BT84*           |
| 60 mm                             | ZB4BX2  | ZB4BT4, ZB4BX4     |
| <b>Push Maintain/Turn Release</b> |         |                    |
| 30 mm                             | ZB4BS42 | ZB4BS834*, ZB4BS44 |
| 40 mm                             | ZB4BS52 | ZB4BS844*, ZB4BS54 |
| 60 mm                             | ZB4BS62 | ZB4BS64            |
| <b>Push Maintain/Key Release</b>  |         |                    |
| 30 mm                             | ZB4BS72 | ZB4BS934*, ZB4B74  |
| 40 mm                             | ZB4BS12 | ZB4BS944*, ZB4B14  |
| 60 mm                             | ZB4BS24 | ZB4BS964*, ZB4B24  |

\*Trigger-action emergency stop operators.

## Selector Switches

|                             |                      |  |
|-----------------------------|----------------------|--|
| <b>Position</b>             |                      |  |
| <b>Standard Black Lever</b> | ZB4BD2 ZB4BD4        | ZB4BD3 ZB4BD5 ZB4BD7 ZB4BD8                      |
| <b>Extended Black Lever</b> | ZB4BJ2 ZB4BJ4        | ZB4BJ3 ZB4BJ5 ZB4BJ7 ZB4BJ8                      |
| <b>Key Operator</b>         | ZB4BG2 ZB4BG3 ZB4BG7 | ZB4BG4 ZB4BG5 ZB4BG8 ZB4BG6 ZB4BG9 ZB4BG1 ZB4BG8 |

|     |                            |
|-----|----------------------------|
|     | <b>Contact Block Guide</b> |
| 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.                     |

|       |   |
|-------|---|
|       | <b>Contact Block Guide</b>              |
| 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

|                     |   |  |  |  |  |  |
|---------------------|---|--|--|--|--|--|
| <b>Lens Color</b>   |   |  |  |  |  |  |
| <b>LED or Neon</b>  | ZB4BVO13 ZB4BVO33 ZB4BVO43 ZB4BVO53 ZB4BVO63    |  |  |  |  |  |
| <b>Incandescent</b> | ZB4BVO1 ZB4BVO3 ZB4BVO4 ZB4BVO5 ZB4BVO6 ZB4BVO7 |  |  |  |  |  |

## Pilot Light Module (with base)

|                   |                                       |   |                            |
|-------------------|---------------------------------------|---|----------------------------|
| <b>Lens Color</b> | <b>Light Source</b>                   | <b>Supply Voltage</b>   | <b>Number</b>              |
|                   | BA 9s Bulbs 2.4 W Max. (not included) | ≤ 250 Vac   | ZV4BV6                     |
|                   | BA 9s bulb (included)                 | 110-120 Vac 50/60 Hz<br>230-240 Vac 50/60 Hz<br>440-480 Vac 60 Hz | ZB4BV3<br>ZB4BV4<br>ZB4BV8 |

|                           |                       |                                    |                       |                             |
|---------------------------|-----------------------|------------------------------------|-----------------------|-----------------------------|
| <b>Light Source Color</b> | <b>Supply Voltage</b> | <b>Number</b>                      | <b>Supply Voltage</b> | <b>Number</b>               |
|                           | 24 Vac or Vdc         | ZB4BV1 ZB4BV3 ZB4BV4 ZB4BV5 ZB4BV6 | 110-120 Vac           | ZB4BV3 ZB4BV4 ZB4BV5 ZB4BV6 |

## Contact Blocks

|             |             |  |   |
|-------------|-------------|--|---|
| <b>N.O.</b> | <b>N.C.</b> | <b>Screw Terminals</b>                       | <b>Spring Clamps</b>                              |
|             | 1 1         | ZB4BZ101 ZB4BZ102 ZB4BZ103 ZB4BZ104 ZB4BZ105 | ZB4BZ1015 ZB4BZ1025 ZB4BZ1035 ZB4BZ1045 ZB4BZ1055 |
|             | 1 1         | ZBE101 ZBE102                                | ZBE1015 ZBE1025                                   |

## Illuminated Push Buttons

|                                   |   |  |  |  |  |  |
|-----------------------------------|---|--|--|--|--|--|
| <b>Lens Color</b>                 |   |  |  |  |  |  |
| <b>Flush Head Incandescent</b>    | ZB4BW13 ZB4BW31 ZB4BW33 ZB4BW34 ZB4BW35 ZB4BW36 ZB4BW37 |  |  |  |  |  |
| <b>Extended Head LED</b>          | ZB4BW13 ZB4BW33 ZB4BW34 ZB4BW35 ZB4BW36                 |  |  |  |  |  |
| <b>Extended Head Incandescent</b> | ZB4BW11 ZB4BW13 ZB4BW14 ZB4BW15 ZB4BW16 ZB4BW17         |  |  |  |  |  |
| <b>Extended Head LED</b>          | ZB4BW113 ZB4BW133 ZB4BW143 ZB4BW153 ZB4BW163            |  |  |  |  |  |
| <b>Silicon Booted Flush Head</b>  | ZB4BW513 ZB4BW533 ZB4BW543 ZB4BW553 ZB4BW563            |  |  |  |  |  |

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

|  |                     |   |             |             |   |
|--|---------------------|---|-------------|-------------|---|
|  | <b>Light Source</b> | <b>Supply Voltage</b>                             | <b>N.O.</b> | <b>N.C.</b> | <b>Number</b>   |
|  | 24 Vac or Vdc       | ZB4BWOB11 ZB4BWOB31 ZB4BWOB41 ZB4BWOB51 ZB4BWOB61 | 1           | —           | ZB4BWOB1 ZB4BWOB2 ZB4BWOB3 ZB4BWOB4 ZB4BWOB5 ZB4BWOB6 |
|  | 110-120 Vac         | ZB4BWOB11 ZB4BWOB31 ZB4BWOB41 ZB4BWOB51 ZB4BWOB61 | 1           | —           | ZB4BWOB2 ZB4BWOB3 ZB4BWOB4 ZB4BWOB5 ZB4BWOB6          |

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

|                     |  |  |             |                                     |
|---------------------|--|--|-------------|-------------------------------------|
| <b>Light Source</b> | <b>Supply Voltage</b>                          | <b>N.O.</b>                                  | <b>N.C.</b> | <b>Number</b>                       |
|                     | BA 9s bulbs 2.4 W max. (order lamp separately) | ≤ 250 Vac                                    | 1 1         | ZB4BW061 ZB4BW062 ZB4BW063 ZB4BW065 |
|                     | BA 9s Incandescent bulb (included)             | 110-120 Vac 50/60 Hz<br>230-240 Vac 50/60 Hz | 1 1<br>1 1  | ZB4BW031 ZB4BW035 ZB4BW041 ZB4BW045 |

## Lamps

|                |                |               |
|----------------|----------------|---------------|
| <b>Voltage</b> | <b>Wattage</b> | <b>Number</b> |
| 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)

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

## Reset Operators

|                            |                             |                  |
|----------------------------|-----------------------------|------------------|
|                            | <b>Actuation Distance</b>   | <b>Travel</b>    |
| 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

|  |  |                    |   |
|--|--|--------------------|---|
|  | <b>1 step 1 N.O. contact per direction</b> | <b>2 direction</b> | XD4PA12: Spring Returned<br>XD4PA22: Maintained |
|  |  | <b>4 direction</b> | XD4PA14: Spring Returned<br>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

|                   |                        |               |
|-------------------|------------------------|---------------|
| <b>30 X 40 mm</b> | <b>Markings</b>        | <b>Number</b> |
|                   | OFF (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

|  |                  |               |
|--|------------------|---------------|
|  | <b>Markings</b>  | <b>Number</b> |
|  | 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 energy<sup>SM</sup>