

Table 19.125: Non-Illuminated Selector Switches



ZB5AD•
Standard Lever



ZB5AJX•
Extended Lever

| Color | Number and Type of Positions | Diagram | Standard Lever ▲ | Extended Lever | \$ Price |
|-------|----------------------------------|---------|------------------|----------------|----------|
| | | | Catalog Number | | |
| Black | 2-maintained | | ZB5AD2 | ZB5AJ2 | 24.00 |
| Black | 2-momentary from right to left | | ZB5AD4 | ZB5AJ4 | 29.40 |
| Black | 3-maintained | | ZB5AD3 | ZB5AJ3 | 24.00 |
| Black | 3-momentary to center | | ZB5AD5 | ZB5AJ5 | 29.40 |
| Black | 3-momentary from left to center | | ZB5AD7 | ZB5AJ7 | 29.40 |
| Black | 3-momentary from right to center | | ZB5AD8 | ZB5AJ8 | 29.40 |

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

Table 19.126: Non-Illuminated Key Switches



ZB5AG•

| Type of Operator | Number and Type of Positions | Catalog Number ■ | \$ Price | | |
|-------------------|----------------------------------|------------------|----------|-------|--------|
| Key (No. 455) | 2-maintained | | ZB5AG2 | 90.00 | |
| | | | ZB5AG4 | | |
| | | | ZB5AG02 | | |
| | 2-momentary from right to left | | ZB5AG6 | | 116.00 |
| | 3-maintained | | ZB5AG0 | | |
| | | | ZB5AG3 | | |
| | | | ZB5AG5 | | |
| | | | ZB5AG9 | | |
| | 3-momentary from left to center | | ZB5AG1 | | |
| | 3-momentary to center | | ZB5AG7 | | |
| | 3-momentary from right to center | | ZB5AG8 | | |
| | | | ZB5AG08 | | |
| | | ZB5AG05 | | | |

Note: The symbol indicates key withdrawal position(s).

- Other key numbers:
—key no. 421E: add the suffix 12 to the catalog number.
—key no. 458A: add the suffix 10 to the catalog number.
—key no. 520E: add the suffix 14 to the catalog number.
—key no. 3131A: add the suffix 20 to the catalog number.
—key no. 8D1: add the suffix D to the catalog number.
Example: The catalog number for a head with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position, becomes: ZB5AG212






Table 19.127: Sequence of Contacts on Selector Switch Bodies

| Unit Type | Selector Switches | | | | | | | | | | | | | | | |
|---------------------------|-------------------|---|---|-----|---|---|------------|---|---|----|---|---|-----|---|---|---|
| | 2-position | | | | | | 3-position | | | | | | | | | |
| | 315° | | | 45° | | | 315° | | | 0° | | | 45° | | | |
| | | | | | | | | | | | | | | | | |
| Operator Plunger Position | Up | | | | | | | | | | | | | | | |
| | Down | | | | | | | | | | | | | | | |
| Contact Block Location | L | C | R | L | C | R | L | C | R | L | C | R | L | C | R | |
| Contacts | N/O | O | O | O | X | X | X | X | X | O | O | O | O | O | X | X |
| | N/C | X | X | X | O | O | O | O | O | X | X | X | X | X | O | O |

Note: L=Left, C=Center, R=Right, O=Open, X=Closed

Table 19.128: 3 Position Selector Switch

| | | | Contact block guide | | | | Contact block guide |
|---|---|---|---|---|---|---|---|
| X | O | O | 1 N.O. (left) | X | X | O | 1 N.C. (right) |
| O | X | O | 2 N.C. wired in series (left and right) | O | X | X | 1 N.C. (left) |
| O | O | X | 1 N.O. (right) | X | O | X | 2 N.O. wired in parallel (left and right) |

| Family | XB4 | XB5 | 9001K | 9001SK | 9001KX |
|-----------------------------------|--|---|--|--|--|
| |  |  |  |  |  |
| Type of Product | 22 mm Push Button (metal) | 22 mm Push Button (plastic) | 30 mm Push Button (metal) | 30 mm Push Button (plastic) | 30 mm Push Button (metal, square) |
| Mounting Hole Diameter | 22.5 mm | 22.5 mm | 31 mm (1.22 in) | 31 mm (1.22 in) | 31 mm (1.22 in) |
| Approvals | UL Listed File E164353, CCN NKCR UL Recognized File E164353, CCN NKCR2 CSA File LR44087, Class 3211-03 | UL Listed File E164353, CCN NKCR UL Recognized File E164353, CCN NKCR2 CSA File LR44087, Class 3211-03 | UL File E78403, CCN NKCR CSA File LR25490, Class 3211-03 | UL File E78403, CCN NKCR CSA File LR25490, Class 3211-03 | UL File E78403, CCN NKCR CSA File LR25490, Class 3211-03 |
| Conforming to Standards | CE Marked EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5 EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching emergency stop push buttons) EN/IEC 60364-5-53 (emergency switching of mechanical latching push buttons) — JIS C 4520 UL 508 CSA C22.2 No.14 | CE Marked EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5 EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching emergency stop push button). EN/IEC 60364-5-53 (emergency switching of mechanical latching push buttons) EN81-1 (emergency stop trigger action and mechanical latching push buttons with mechanical state indicator) JIS C 4520 UL 508 CSA C22.-2 No.14 | CE Marked EN/IEC 60947-1 EN/IEC60947-5-1 EN/IEC60947-5-4 JIS C 4520 and 852 UL 508 CSA C22.2 No.14 | CE Marked EN/IEC 60947-1 EN/IEC60947-5-1 EN/IEC60947-5-4 JIS C 4520 and 852 UL 508 CSA C22.2 No.14 | CE Marked EN/IEC 60947-1 EN/IEC60947-5-1 EN/IEC60947-5-4 JIS C 4520 and 852 UL 508 CSA C22.2 No.14 |
| Degree of Protection | IP65 IP66 for booted NEMA 1, 2, 3, 4, 12, 13 | IP65 IP66 for Booted NEMA 1, 2, 3, 4, 4X, 12, 13 | IP66 NEMA 1, 2, 3, 3R, 4, 12, 13 | IP66 NEMA 1, 2, 3, 3R, 4, 4X, 12, 13 | IP66 NEMA 1, 2, 3, 3R, 4, 4X, 12, 13 |
| Electric Shock Protection | Class I | Class I | Class II | Class II | Class II |
| Electrical Consumption | | | | | |
| LED | 24 Vac/Vdc: 18 mA 120 Vac: 14 mA 240 Vac: 14 mA | 24 Vac/Vdc: 18 mA 120 Vac: 14 mA 240 Vac: 14 mA | | | |
| Rated Operational Characteristics | AC-15; B600 Ue = 600 Vac and Ie = 1.2 A Ue = 240 Vac and Ie = 3 A Ue = 120 Vac and Ie = 6 A Continuous 10 A DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250 Vdc and Ie = 0.27 A Ue = 125 Vdc and Ie = 0.55 A | AC-15; B600 Ue = 600 Vac and Ie = 1.2 A Ue = 240 Vac and Ie = 3 A Ue = 120 Vac and Ie = 6 A Continuous 10 A DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250Vdc and Ie = 0.27 A Ue = 125 Vdc and Ie = 0.55 A | AC-15; A600 Continuous 10 A DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250 Vdc and Ie = 0.27 A Ue = 125 Vdc and Ie = 0.55 A | AC-15; A600 Continuous 10 A DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250 Vdc and Ie = 0.27 A Ue = 125 Vdc and Ie = 0.55 A | AC-15; A600 Continuous 10 A DC-13; Q600 Ue = 600 Vdc and Ie = 0.1 A Ue = 250 Vdc and Ie = 0.27 A Ue = 125 Vdc and Ie = 0.55 A |
| Connection Type | Screw or Spring Terminal | | Screw Terminal | | |
| | Screw Terminal: | Spring Terminal: | | | |
| Cable Size | 1 x 24 AWG (0.22 mm ²) min. 2 x 14 AWG (2.5 mm ²) max. 2 x 16 AWG (1.5 mm ²) max. | 1 x 24 AWG (0.22 mm ²) min. 2 x 14 AWG (2.5 mm ²) max. 2 x 16 AWG (1.5 mm ²) max. | 1 x 24 AWG (0.22 mm ²) min. 2 x 16 AWG (1.5 mm ²) max | 1 x 24 AWG (0.22 mm ²) min. 2 x 16 AWG (1.5 mm ²) max | 1 x 24 AWG (0.22mm ²) min. 2 x 16 AWG (1.5 mm ²) max |
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