## Honeywell



Push-Pull and E-Stop Switches


Datasheet

## Push-Pull and E-Stop Switches

Honeywell Push-pull and E-stop switches are durable, environmentally sealed, sliding contact switches incorporating two circuits with multiple combinations. The sliding contacts provide positive contact closure and opening when the switch knob is operated.

The dual O-ring design protects the contact chamber by isolating it from any moisture or any other contaminant. These Push-pull and E-stop switches are available as two-circuit switches. Contact closures are available with both circuits closed in the push position, both circuits closed in the pull position, or alternate closure: one closed and one open.

These switches can be a replacement for sealed and unsealed switches including power take-off switches and park brake switches. These rugged and reliable switches increase application reliability and facilitate seamless equipment operation and control with their ability to keep dirt and moisture out of the contact chamber, thereby promoting longer switch life.

Multiple standard knob colors are available with these switches and can be shipped in bulk packaging.

## What makes our switches better?

- The dual O-ring design protects the contact chamber by isolating it from any moisture or any other contaminant
- Vibration frequency from 18 Hz to 1000 Hz
- UL and CE certified listings offered
- Self-cleaning, sliding contacts deliver outstanding reliability that enhances performance
- Sliding contacts provide positive contact closure and opening when the switch knob is operated

Designed for severe temperatures


# Features and Benefits 

## ENVIRONMENTAL PROTECTION

Honeywell Push-pull and E-stop switches are designed and tested to withstand a wide range of environmental conditions and contaminants: severe temperatures, chemical splashes, pressure wash, vibration, dust, humidity, and salt.

## IMPROVED DURABILITY

The dual O-ring design protects the contact chamber by isolating it from moisture and/or any other contaminant.

## Form factor! Easily customized for specific applications

## NON-CONDENSING CAPABILITY

These Push-pull switches can be operated in humidity range of $5 \% \mathrm{RH}$ to $95 \% \mathrm{RH}$ and are designed for severe temperatures.

## SLIDING CONTACTS

The sliding contacts provide positive contact closure and opening when the switch knob is operated.

## ENHANCED DURABILITY

IP67 sealing (select listings); resistant to impact, vibration, and shock.

MULTIPLE KNOB COLOR AVAILABILITY
UL FILE E219293 (select listings)

## Push-Pull and E-Stop Switches

## Potential Applications



Honeywell Push-pull and E-stop switches are found in the toughest applications including:

- Construction
- Agricultural
- Marine
- Material handling
- Machine tools
- Mining
- Lawn and garden
- Heavy equipment



## Push-Pull and E-Stop Switches

Table 1. Electrical, Mechanical, and Environmental Specifications

| Characteristics |  | Description |
| :---: | :---: | :---: |
| Electrical |  |  |
| Nominal voltage |  | $12 \mathrm{dc}, 24 \mathrm{dc}, 48 \mathrm{dc}$, or C300* |
| Current, max. |  | 20 A @ 12 Vdc , 10 A @ 24 Vdc , 4 A @ 48 Vdc |
| Current, min. |  | 0.1 A, resistive |
| Dielectric |  | 500 Vdc or 707 Vdc for 1 minute, 5 mA max. |
| Voltage drop |  | 1 Vdc at rated dc loads, max. |
| Mechanical |  |  |
| Operating force |  | $27 \mathrm{~N} \pm 14 \mathrm{~N}$ |
| Life |  | 25,000 cycles at rated load |
| Handle shock |  | 1 m [39.37 in] drop to hard surface |
| Vibration |  | $10 \mathrm{~g} \mathrm{max}$. . 18 Hz to 1000 Hz |
| Connector |  | Screw terminals (combo-head), wire harness with 4-pin Deutsch connector |
| Environmental |  |  |
| Humidity |  | 95 \% non-condensing |
| UV color fade |  | DE 3 max. at 15,000 hours UVB, ASTM G 154-06 |
| Temperature | Operating | $-40^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}\left[-40^{\circ} \mathrm{F}\right.$ to $\left.104^{\circ} \mathrm{F}\right]$ |
|  | Storage | $-40^{\circ} \mathrm{C}$ to $80^{\circ} \mathrm{C}\left[-40^{\circ} \mathrm{F}\right.$ to $\left.176{ }^{\circ} \mathrm{F}\right]$ |
| Sealing |  | 50058830-05 is IP67 rated |
| Approvals |  | UL, CE (select listings) |

*For details, please refer Table 2

Table 2. Electrical Ratings based on Utilization Categories

| Designation ${ }^{1}$ | Utilization Category | Conventional Enclosed Thermal Current $I_{\text {the }}$ (A) | Rated Operational Current $I_{e}(A)$ at Rated Operational Voltage |  |  |  |  |  | VA Rating |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | VA |  |
| ac |  | - | 120 V | 240 V | 380 V | 480 V | 500 V | 600 V | Make | Break |
| C300 | AC-15 | 2,5 | 1,5 | 0,75 | - | - | - | - | 1800 | 180 |

Note 1: The letter stands for the conventional enclosed thermal current and identifies (ac or dc): for example B means 5 A ac. The rated insulation voltage $U_{i}$ is at least equal to the number after the letter
Note 2: The rated operational current $I_{e}(A)$, the rated operational voltage $U_{e}(V)$ and the break apparent power $B$ (VA) are correlated by the formula $B=U e$. le

## Push-Pull and E-Stop Switches

Table 3. Packaging Options/Codes

| Code | Quantity/Packaging | Fastenings |
| :---: | :---: | :---: |
| 00 | 150 units per box | One (1) of each part (mounting nut, large screw, cap, clip, button) and four (4) of each mounting hardware (clamps and short screws) are packed into individual bags. Bags are placed individually with each product in its carton cell. |
| 01 | 50 units per box | Fifty (50) of each part (mounting nuts, large screws, caps, clips, and buttons) are packed into one large bag and placed into the carton. |
| 02 | 50 units per box | Fifty (50) of each part (mounting nuts, large screws, caps, clips, buttons, installation screws, and wire clamps) are packed into individual part bags and placed into the carton. |
| 04 | 100 units per box | 100 of each part (mounting nuts, large screws, caps, clips, buttons, installation screws, and wire clamps) are packed in two bags containing 50 of each part and placed into the carton. |
| 05 | 150 units per box | 150 of each part (mounting nuts, large screws, caps, clips, and buttons) are packed into three bags containing 50 of each part and placed in box. |
| 08 | 48 units per box | One (1) of each part (mounting nut, large screw, cap, clip, button) and four (4) of each mounting hardware (clamps and short screws) are packed into a bag. The bag is placed into an individual box within the carton. |
| 09 | 150 units per box | One (1) of each part (mounting nut, large screw, cap, clip, button) and four (4) of each mounting hardware (clamps and short screws) are packed into individual bags. 150 bags are then placed into the carton. |
| 12 | 150 units per box | One (1) of each part (mounting nut, large screw, cap, clip, button) and four (4) of each mounting hardware (clamps and short screws) are packed into individual bags. 150 bags are placed individually with each product in its carton cell. |

## Push-Pull and E-Stop Switches

Table 4. Order Guide and Specifications

${ }^{1}$ Numbers before the dash indicate the model number; the three digit number after the model number indicates the color code and the two digit number following the dash indicates the packaging option. For more information on packaging options, see Table 3.

## Push-Pull and E-Stop Switches

|  | Catalog Listing ${ }^{1}$ | Knob Color | Circuitry | Terminal Type | Terminals | Approvals | Bulk Packaging | Dimensional Drawing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 50070974-003-00 | Yellow | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-003-01 | Yellow | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-003-08 | Yellow | 1NC/1NO | Screw terminal | 4 | - | 48 units per box | Figure 4 |
|  | 50070974-004-00 | Black | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-004-01 | Black | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-004-08 | Black | 1NC/1NO | Screw terminal | 4 | - | 48 units per box | Figure 4 |
|  | 50070974-005-00 | Green | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-005-01 | Green | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-005-08 | Green | 1NC/1NO | Screw terminal | 4 | - | 48 units per box | Figure 4 |
|  | 50070974-006-00 | Blue | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-006-01 | Blue | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-008-00 | Gray | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-008-01 | Gray | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-008-08 | Gray | 1NC/1NO | Screw terminal | 4 | - | 48 units per box | Figure 4 |
|  | 50070974-009-00 | White | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-009-01 | White | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-009-08 | White | 1NC/1NO | Screw terminal | 4 | - | 48 units per box | Figure 4 |
|  | 50087384-12 | Yellow | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 7 |

E-Stop Switches

|  | 87941-00 | Red | 2NC | Screw terminal | 4 | UL, CE | 150 units per box | Figure 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 87941-01 | Red | 2NC | Screw terminal | 4 | UL, CE | 50 units per box | Figure 2 |
|  | 87941-08 | Red | 2NC | Screw terminal | 4 | UL, CE | 48 units per box | Figure 2 |
|  | 87943-00 | Red | 1NC/1NO | Screw terminal | 4 | UL, CE | 150 units per box | Figure 4 |
|  | 87943-01 | Red | 1NC/1NO | Screw terminal | 4 | UL, CE | 50 units per box | Figure 4 |
|  | 87943-08 | Red | 1NC/1NO | Screw terminal | 4 | UL, CE | 48 units per box | Figure 4 |
|  | 87944-00 | Red | 2NO | Screw terminal | 4 | UL, CE | 150 units per box | Figure 1 |
|  | 87944-04 | Red | 2NO | Screw terminal | 4 | UL, CE | 100 units per box | Figure 1 |
|  | 87944-08 | Red | 2NO | Screw terminal | 4 | UL, CE | 48 units per box | Figure 1 |

${ }^{1}$ Numbers before the dash indicate the model number; the three digit number after the model number indicates the color code and the two digit number following the dash indicates the packaging option. For more information on packaging options, see Table 3.

## Push-Pull and E-Stop Switches

|  | Catalog Listing ${ }^{1}$ | Knob Color | Circuitry | Terminal Type | Terminals | Approvals | Bulk Packaging | Dimensional Drawing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 50058830-05 | Red | 1NC/1NO | Wire harness with 4-pin Deutsch connector | n/a | UL, CE | 150 units per box | Figure 5 |
|  | 50070967-002-08 | Red | 2NC | Screw terminal | 4 | - | 48 units per box | Figure 2 |
|  | 50070974-002-00 | Red | 1NC/1NO | Screw terminal | 4 | - | 150 units per box | Figure 4 |
|  | 50070974-002-01 | Red | 1NC/1NO | Screw terminal | 4 | - | 50 units per box | Figure 4 |
|  | 50070974-002-08 | Red | 1NC/1NO | Screw terminal | 4 | - | 48 units per box | Figure 4 |
|  | 50093979-05 | Red | 2NC | Wire harness with 4-pin Deutsch connector | n/a | - | 150 units per box | Figure 3 |
| Momentary Push-Pull Switches |  |  |  |  |  |  |  |  |
|  | 90201-02 | Red | 1NC | Screw terminal | 2 | UL, CE | 50 units per box | Figure 6 |
|  | 90221-09 | Orange | 2NC | Screw terminal | 4 | UL, CE | 150 units per box | Figure 2 |

${ }^{1}$ Numbers before the dash indicate the model number; the three digit number after the model number indicates the color code and the two digit number following the dash indicates the packaging option. For more information on packaging options, see Table 3.

## Push-Pull and E-Stop Switches

## DIMENSIONAL DRAWINGS

Figure 1. Push-pull/E-stop switches with 2NO circuitry and screw terminal



Bottom view


Wiring diagram

| Listing | $\begin{gathered} 1 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | 2 mm [in] |  |  | $\begin{gathered} 3 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 4 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 5 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 6 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Pulled | Pushed |  |  |  |  |
| 87944 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 74,4 \\ {[2.93]} \end{gathered}$ | $\begin{aligned} & 77,98 \\ & {[3.07]} \end{aligned}$ | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{aligned} & 29,72 \\ & {[1.17]} \end{aligned}$ | $\begin{aligned} & 13,46 \\ & {[0.53]} \end{aligned}$ | $\begin{gathered} \varnothing 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing \text { 33,02 } \\ & \varnothing[1.30] \end{aligned}$ |
| 88843 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 74,4 \\ {[2.93]} \end{gathered}$ | - | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{aligned} & 32,26 \\ & {[1.27]} \end{aligned}$ | $\begin{aligned} & 10,92 \\ & {[0.43]} \end{aligned}$ | $\begin{gathered} \varnothing 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing 33,02 \\ & \varnothing[1.30] \end{aligned}$ |

Figure 2. Push-pull/E-stop switches with 2NC circuitry and screw terminal



Bottom view


Wiring diagram

| Listing | $\begin{gathered} 1 \\ m m[i n] \end{gathered}$ | 2 mm [in] |  |  | $\begin{gathered} 3 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 4 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\stackrel{5}{\mathrm{~mm}}[\mathrm{in}]$ | $\begin{gathered} { }^{6} \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Pulled | Pushed |  |  |  |  |
| 87941 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | - | $\begin{aligned} & 77,98 \\ & {[3.07]} \end{aligned}$ | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{aligned} & 29,72 \\ & {[1.17]} \end{aligned}$ | $\begin{aligned} & 13,46 \\ & {[0.53]} \end{aligned}$ | $\begin{gathered} \varnothing \text { } 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing \text { 33,02 } \\ & {[01.30]} \end{aligned}$ |
| 89496 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 73,01 \\ {[2.875]} \end{gathered}$ | - | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{aligned} & 32,26 \\ & {[1.27]} \end{aligned}$ | $\begin{aligned} & 10,92 \\ & {[0.43]} \end{aligned}$ | $\begin{gathered} \varnothing \text { } 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing \text { 33,02 } \\ & {[\varnothing 1.30]} \end{aligned}$ |
| 90221 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 73,01 \\ {[2.875]} \end{gathered}$ | - | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{gathered} 32,13 \\ {[1.265]} \end{gathered}$ | $\begin{aligned} & 10,92 \\ & {[0.43]} \end{aligned}$ | $\begin{gathered} \varnothing \text { 38,63 } \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing \text { 33,02 } \\ & {[\varnothing 1.30]} \end{aligned}$ |
| 50070967 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 73,01 \\ {[2.875]} \end{gathered}$ | - | - | $\begin{gathered} 29,6 \\ {[1.165]} \end{gathered}$ | - | $\begin{gathered} \varnothing \text { } 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing \text { 33,02 } \\ & {[\varnothing 1.30]} \end{aligned}$ |

Figure 3. Push-pull/E-stop switches with 2NC circuitry and Deutsch connector, 50093979
 type SXL

Deutsch connector DT04-4P mates with DT06-4S -

## Push-Pull and E-Stop Switches

Figure 4. Push-pulI/E-stop switches with 1NC/1NO circuitry and screw terminal



Bottom view


Wiring diagram

| Listing | $\stackrel{1}{\mathrm{~mm}}[\mathrm{in]}$ | 2 mm [in] |  |  | $\begin{gathered} 3 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 4 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 5 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ | $\begin{gathered} 6 \\ \mathrm{~mm}[\mathrm{in}] \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Pulled | Pushed |  |  |  |  |
| 87943 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 77,9 \\ {[3.07]} \end{gathered}$ | - | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{aligned} & 29,72 \\ & {[1.17]} \end{aligned}$ | $\begin{aligned} & 13,46 \\ & {[0.53]} \end{aligned}$ | $\begin{gathered} \varnothing \text { } 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing 33,02 \\ & {[\varnothing 1.30]} \end{aligned}$ |
| 90098 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | - | $\begin{aligned} & 73,15 \\ & {[2.88]} \end{aligned}$ | $\begin{aligned} & 29,72 \\ & {[1.17]} \end{aligned}$ | $\begin{aligned} & 13,46 \\ & {[0.53]} \end{aligned}$ | $\begin{gathered} \varnothing \text { } 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing 33,02 \\ & {[\varnothing 1.30]} \end{aligned}$ |
| 50070974 | $\begin{aligned} & \varnothing 45,21 \\ & {[\varnothing 1.78]} \end{aligned}$ | $\begin{gathered} 73,01 \\ {[2.875]} \end{gathered}$ | - | $\begin{gathered} 73,01 \\ {[2.875]} \end{gathered}$ | $\begin{gathered} 29,6 \\ {[1.165]} \end{gathered}$ | - | $\begin{gathered} \varnothing 38,63 \\ {[\varnothing 1.521]} \end{gathered}$ | $\begin{aligned} & \varnothing 33,02 \\ & {[\varnothing 1.30]} \end{aligned}$ |

Figure 5. Push-pull/E-stop switches with 1NC/1NO circuitry and Deutsch connector, 50058830


Figure 6. Push-pull/E-stop switches with 1NC circuitry and screw terminal, 90201



Bottom view


Wiring diagram Normal position: A-B is closed Pushed position: A-B is open

## Push-Pull and E-Stop Switches

Figure 7. Push-pull/E-stop switches with 1NC/1NO circuitry and screw terminal, 50087384


Wiring diagram

## Mounting knobs

Figure 8. 50071755


Figure 9. 50071756


## Push-Pull and E-Stop Switches

Figure 10. Recommended mounting hole


Part numbers: 87944, 50058830, 50087384, 50093979

Figure 11. Recommended mounting hole


Mounting plate thickness: $1,3 \mathrm{~mm}$ to $4,8 \mathrm{~mm}$ [ 0.05 in to 0.19 in ] Part numbers: 87941, 87943, 88843, 89496, 90201, 90221 , 90098,50070967 , and 50070974

Figure 12. Mounting screw 81908


Figure 13. Mounting nut 84508


Figure 14. Mounting clip 87770


## Push-Pull and E-Stop Switches

## ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell website at sensing.honeywell.com:

- Product line guide
- Product range guide
- Product application-specific information
- Application note: Sensors and switches in front loaders
- Application note: Sensors and switches in mobile cranes
- Application note: Sensors and switches in oil rig applications


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DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.
Failure to comply with these instructions could result in death or serious injury.

## AWARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.
Failure to comply with these instructions could result in death or serious injury.


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