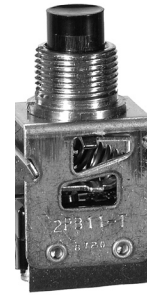


MICRO SWITCH™

Pushbutton Switches

Line Guide



Pushing industry innovation. Honeywell Sensing and Control (S&C) is the global leader in switching products. So you can be sure we offer the most comprehensive line of pushbutton switches — including touch feedback, short travel, panel sealed, watertight, hermetically sealed, and miniature switch series.

Excelling in applications ranging from light industrial to aerospace, these switches are compact, durable, and offer up to four poles — with momentary and alt-action, and with a choice of different colors, shapes and termination options. FAA and PMA approved listings are also offered, as well as listings with military specifications.

FEATURES

MICRO SWITCH™ PUSHBUTTON SWITCHES

PB Series.

Features: Compact size • Up to four poles • Sealed versions available • 48 oz max. operating force • Expected 50000 operations of mechanical life
• Hermetically sealed pushbuttons are corrosion resistant per MIL-S-8805 and meets explosion proof requirements of MIL-S-8805

Benefits: Switches are available designed as touch feedback, short travel, panel-sealed, hermetically sealed, and miniature sized. Potential applications include manual operations, such as control boards and panels in industrial and test equipment, computer mainframes and peripherals, process control, medical instrumentation, and flight deck controls.

AML Series.

Features: 1-, 2-, or 4-poles • Silver or gold contacts • Full guard bezel option • Momentary or two-level alternate action (push-on, push-off) • Solid state, electronic, and power-duty control • Snap-in surface mount or sub-panel (hidden bezel) mount with mounting hardware
• Lamps can be furnished installed or ordered separately • Lamp circuit independent of switch circuit • Optional diode protection for LEDs • 4.5 Vdc to 24 Vdc LED devices have an internal resistor to maintain current at nominal 20 mA

Benefits: AML offers a choice of five legend sizes, four button heights, full-or-split section display, and illumination by incandescent lamps, LEDs or neons. Accommodates different functions and promotes operator efficiency. All terminations at the same shallow depth (43,1 mm [1.7 in]) for convenient wiring or PC board termination. Potential applications include manual operations, such as control boards and panels in industrial and test equipment, computer mainframes and peripherals, process control, and medical instrumentation.

MML Series.

Features: 1- or 2-poles • Silver or gold contacts • Printed wiring board (PWB) or panel-mounted switches • Momentary or two-level alternate action (push-on, push-off) • Solid state, electronic, and power-duty control • Snap-in surface mount or sub-panel (hidden bezel) mount with mounting hardware • Multi-unit strip mounting available • Single-level termination • Tactile feedback • Coordinated appearance enhances panel harmony • Illumination by long-life LEDs and incandescent lamps

Benefits: Complements AML pushbuttons and indicators with flexibility and design freedom for miniature manual. Breadth of line offers complete selection of pushbuttons and indicators to accommodate different functions and promote operator efficiency. Potential applications include manual operations, such as control boards and panels in industrial and test equipment, computer mainframes and peripherals, process control, and medical instrumentation.

MICRO SWITCH™ Pushbutton Switches Line Guide

The lineup of the leader.

Line up behind Honeywell S&C quality and performance, found in each pushbutton switch we offer:

Touch feedback: These momentary and alternate action switches offer a compact size and up to four poles.

Short travel: Resembling the touch-feedback design, these switches have a flexible leaf actuator for lower operating force and shorter button travel.

Panel sealed: An elastomer seal is bonded between actuating plunger and button collar — a two-piece design that enables buttons mounting separately. After wiring, the unit snaps into place from behind the panel.

Watertight: Facenut-to-panel, button-to-facenut, and bushing-to-facenut sealing prevents entry of water from the back of panels or over bushing walls. Switch units are potted in corrosion resistant metal enclosures.

Hermetically sealed: These switch units feature metal-to-metal fusion around the cover, actuator base and mounting holes. Terminals are sealed glass-to-metal, while vapor-proof construction enables use in damp locations without condensation on contacts.

Miniature size: These momentary action switches offer steel buttons for use under hinged plates or paddle levers.



Unlit Pushbutton Switches

PB Series

| | |
|------------------------|--|
| Panel area | depends on type and number of basic switches |
| Display | 8,1 mm [0.32 in] and other button sizes |
| Colored buttons | available |
| Mounting | threaded bushing |
| Termination | solder, H58, quick-connect |
| Sealing | panel-seal version, hermetically sealed switch units |
| Electrical data | 2 A to 5 A, 125/250 Vac |
| Approvals | UL, CSA, some meet MIL-S-8805 and MIL-STD-1080D |



Lit Pushbutton Switches

AML Series



MML Series

| | | |
|---------------------------|---|--|
| Panel area | 20,5 mm [0.80 in] square, 20,5 mm x 30,5 mm [0.80 in x 1.20 in] rectangular | 15 mm x 9,9 mm [0.59 in x 0.39 in] rectangular, 17,8 mm x 12,7 mm [0.70 in x 0.50 in] rectangular, 9,9 mm [0.39 in] square |
| Display | 15,0 mm [0.59 in] square, 15 mm x 25 mm [0.59 in x 0.99 in] buttons | 13 mm x 6,6 mm [0.51 in x 0.26 in] rectangular, 6,8 mm [0.27 in] square |
| Illumination | incandescent T-1-3/4 lamps – 6 V, 14 V, 28 V; leds – 2 V, 4 V, 5 V, 10 V, 15 V; neon lamps – 125 V, 250 V | T-1 – 5 V, 28 V; incandescent T-1-3/4 leds – 2.0 V, 2.5 V, 3.0 V |
| Behind panel depth | 43,1 mm [1.7 in] | 17,0 mm [0.67 in] |
| Mounting | snap-in individual, strip, matrix, sub-panel, pc board | snap-in individual, strip, sub-panel, pc board, bezel |
| Termination | solder, quick-connect, pc board, push-on | solder, quick-connect, printed wiring board |
| Sealing | Optional panel seal | – |
| Electrical data | solid state: 5 Vdc, 6 Vdc to 16 Vdc, 4.5 Vdc to 24 Vdc; electronic control: up to 3 A, 125 Vac | silver contacts: up to 1 A, 125 Vac; 6 A @ 125 Vac, 250 Vac; 2 A @ 30 Vdc; 1 A @ 125 Vdc; 1/10 hp @ 125 Vac; gold contacts: up to 0.25 A, 30 Vdc; UL rating 0.10 A |
| Approvals | UL, CSA, CDE, and CE (selected products) | UL, CSA |

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.


Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847. Email inquiries to info.sc@honeywell.com

 **WARNING**
PERSONAL INJURY

- 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.

 **WARNING**
MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- 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.

Sensing and Control
Automation and Control Solutions
Honeywell
1985 Douglas Drive North
Golden Valley, MN 55422 USA
+1-815-235-6847
www.honeywell.com/sensing

005424-1-EN IL50 GLO
July 2008
Copyright © 2008 Honeywell International Inc. All rights reserved.

Honeywell