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Sensing and Control
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Sensing and Control

Honeywell Inc.

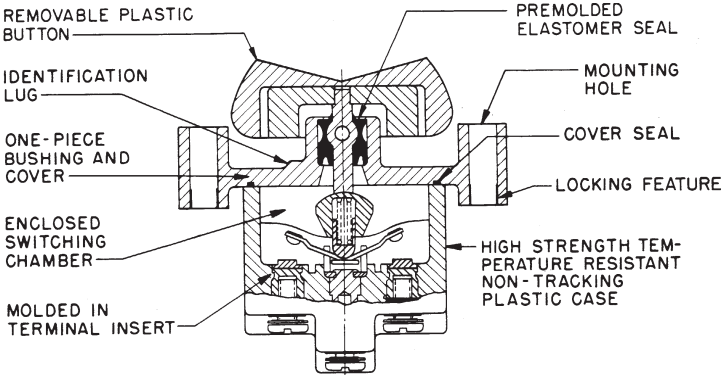
11 West Spring Street

Freeport, IL 61032

Manual Switches

Rocker Button Switches

TP Series



| UL/CSA Rating Code | Electrical Rating |
|--------------------|--|
| L192 | 10 amps-125, 250, 277 VAC; 1/4 Hp-125 VAC; 1/2 Hp-250, 277 VAC 3 Amps-125 VAC "L" |
| L191 | 15 amps-125, 250, 277 VAC; 1/2 Hp-125 VAC; 1Hp-250, 277 VAC 5 amps-120 VAC "L" |

Application Note: Honeywell MICRO SWITCH does *not* recommend the use of silver cadmium oxide switch contacts in non-arcing loads. Non-arcing loads are generally loads less than 12 volts and/or 0.5 amp. TP switches use silver cadmium oxide contacts. For other options, contact the MICRO SWITCH Application Center at 1-800-537-6945.

FEATURES

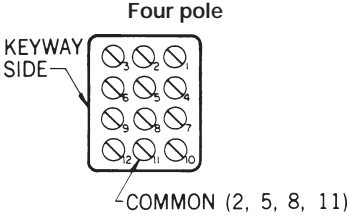
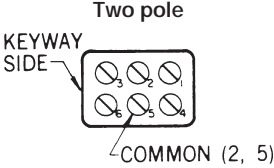
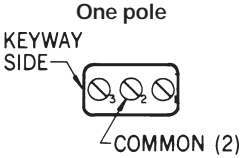
- 2 and 3 position pushbutton action
- Various button colors
- 1, 2, and 4 pole circuitry
- Flush panel and above panel mounting
- Temperature range is from -65°F to +160°F (-54°C to +71°C)
- UL recognized, CSA certified
- CE approved

CONSTRUCTION

Above panel mounting gives a distinct button appearance. Flush panel mounting presents a low button profile.

TERMINAL CIRCUIT IDENTIFICATION

Terminal identifications are referred to in the order guides to indicate which circuits are made in each toggle position (i.e., 1-2 indicates circuit closure through terminals 1 and 2).



Toggle/Rockers

Manual Switches

Rocker Button Switches



Typical two-pole flush panel translucent button switch



Typical one-pole above panel transparent button switch

BUTTON OPTIONS

Buttons are removable and interchangeable. They measure .87" x 1.46" (22,1 x 37,1 mm).

Transparent (colorless plastic) buttons accept under-the-surface legend inserts for station and function identification. **Legend inserts are not furnished.** Insert legending can be done by your local supplier.

Translucent (white plastic) buttons have a clear appearance.

Colored (opaque plastic) buttons are excellent for color coding switch functions.

SWITCHES WITHOUT BUTTONS

To order switches without buttons, convert catalog listings shown in the order guides. Substitute **TP7** for TP4 and TP16 above panel mounted switches; substitute **TP8** for TP201 and TP12 flush panel mounted switches. Order buttons separately from the chart below.

BUTTON ORDER GUIDE

| Color | Catalog Listing |
|-------------|-----------------|
| Translucent | 12PA6 |
| Transparent | 12PA4 |
| White* | 12PA5-W |
| Yellow* | 12PA5-Y |
| Black* | 12PA5-BK |
| Green* | 12PA5-G |
| Red* | 12PA5-R |
| Blue* | 12PA5-BL |

* Opaque

2-POSITION ORDER GUIDE

Furnished with buttons.

| No. of Poles | Circuits Made with Button at: | | UL/CSA Rating Code | Elec. Rating Code | Catalog Listings | | | |
|--------------|-------------------------------|----------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| | Ident. Lug Position | Opposite Ident. Lug | | | Flush Panel | | Above Panel | |
| | | | | | Translucent Button | Transparent Button | Translucent Button | Transparent Button |
| 1 | OFF | 2-3 | L191 | 1 | 1TP201-2 | 1TP12-2 | 1TP216-2 | 1TP4-2 |
| | OFF* | 2-3 | L192 | 2 | 1TP201-4 | — | — | — |
| | 1-2* | OFF | L192 | 2 | 1TP201-6 | 1TP12-6 | — | 1TP4-6 |
| | 1-2 | 2-3 | L191 | 1 | 1TP201-3 | 1TP12-3 | 1TP216-3 | 1TP4-3 |
| | 1-2* | 2-3 | L192 | 2 | 1TP201-8 | 1TP12-8 | 1TP216-8 | — |
| 2 | OFF | 2-3, 5-6 | L191 | 3 | 2TP201-2 | 2TP12-2 | 2TP216-2 | 2TP4-2 |
| | 1-2,4-5 | 2-3, 5-6 | L191 | 3 | 2TP201-3 | 2TP12-3 | 2TP216-3 | 2TP4-3 |
| | 1-2,4-5* | 2-3, 5-6 | L192 | 4 | 2TP201-8 | 2TP12-8 | 2TP216-8 | 2TP4-8 |
| 4 | OFF | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4TP201-2 | 4TP12-2 | — | — |
| | OFF* | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | — | — | 4TP216-4 | — |
| | 1-2, 4-5, 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4TP201-3 | 4TP12-3 | 4TP216-3 | 4TP4-3 |
| | 1-2, 4-5, 7-8, 10-11* | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | — | — | 4TP216-8 | — |
| | | | | | | | | |

* These positions only are momentary. All others are maintained.

Manual Switches

Rocker Button Switches

TP Series

3 - POSITION ORDER GUIDE

Furnished with buttons.

| No. of Poles | Circuits Made with Button at: | | | UL/CSA Rating Code | Elec. Rating Code | Catalog Listings | | | |
|--------------------------|-------------------------------|--------------------------|-------------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| | Ident. Lug Position | Center Position | Opposite Lug Position | | | Flush Panel | | Above Panel | |
| | | | | | | Translucent Button | Transparent Button | Translucent Button | Transparent Button |
| 1 | 1-2 | OFF | 2-3 | L191 | 1 | 1TP201-1 | 1TP12-1 | 1TP216-1 | 1TP4-1 |
| | 1-2* | OFF | 2-3 | L192 | 2 | 1TP201-5 | 1TP12-5 | 1TP216-5 | 1TP4-5 |
| | 1-2* | OFF | 2-3* | L192 | 2 | 1TP201-7 | 1TP12-7 | 1TP216-7 | 1TP4-7 |
| | NONE** | OFF | 2-3 | L191 | 1 | 1TP201-21 | 1TP12-21 | — | 1TP4-21 |
| | NONE** | 1-2 | 2-3 | L191 | 1 | 1TP201-31 | 1TP12-31 | — | 1TP4-31 |
| | NONE** | 1-2 | 2-3* | L192 | 2 | 1TP201-51 | 1TP12-51 | 1TP216-51 | 1TP4-51 |
| | 1-2* | OFF | NONE** | L192 | 2 | 1TP201-61 | 1TP12-61 | 1TP216-61 | 1TP4-61 |
| 2 | 1-2, 4-5 | OFF | 2-3, 5-6 | L191 | 3 | 2TP201-1 | 2TP12-1 | 2TP216-1 | 2TP4-1 |
| | 1-2, 4-5* | OFF | 2-3, 5-6 | L192 | 4 | 2TP201-5 | 2TP12-5 | 2TP216-5 | 2TP4-5 |
| | 1-2, 4-5* | OFF | 2-3, 5-6* | L192 | 4 | 2TP201-7 | 2TP12-7 | 2TP216-7 | 2TP4-7 |
| | NONE** | OFF | 2-3, 5-6 | L191 | 3 | 2TP201-21 | 2TP12-21 | 2TP216-21 | 2TP4-21 |
| | NONE** | 1-2, 4-5 | 2-3, 5-6 | L191 | 3 | 2TP201-31 | 2TP12-31 | 2TP216-31 | 2TP4-31 |
| | NONE** | 1-2, 4-5 | 2-3, 5-6* | L192 | 4 | 2TP201-512 | 2TP12-512 | 2TP216-512 | 2TP4-512 |
| | 1-2, 4-5* | OFF | NONE** | L192 | 4 | 2TP201-61 | 2TP12-61 | 2TP216-61 | 2TP4-61 |
| | 1-2, 4-5 | 1-2, 5-6 | 2-3, 5-6 | L191 | 3 | 2TP201-10† | 2TP12-10 | 2TP216-10 | 2TP4-10 |
| | 1-2, 4-5* | 1-2, 5-6 | 2-3, 5-6 | L192 | 4 | 2TP201-50† | 2TP12-50 | 2TP216-50 | 2TP4-50 |
| | 1-2, 4-5* | 1-2, 5-6 | 2-3, 5-6* | L192 | 4 | 2TP201-70† | 2TP12-70 | 2TP216-70 | 2TP4-70 |
| 4 | 1-2, 4-5, 7-8, 10-11 | OFF | 2-3, 5-6 8-9, 11-12 | L191 | 5 | 4TP201-1 | 4TP12-1 | 4TP216-1 | 4TP4-1 |
| | 1-2, 4-5 7-8, 10-11* | OFF | 2-3, 5-6 8-9, 11-12 | L192 | 6 | 4TP201-5 | 4TP12-5 | — | 4TP4-5 |
| | 1-2, 4-5, 7-8, 10-11* | OFF | 2-3, 5-6 8-9, 11-12* | L192 | 6 | 4TP201-7 | 4TP12-7 | 4TP216-7 | 4TP4-7 |
| | NONE** | OFF | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4TP201-21 | 4TP12-21 | 4TP216-21 | 4TP4-21 |
| | NONE** | 1-2, 4-5 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4TP201-31 | — | 4TP216-31 | 4TP4-31 |
| | NONE** | 1-2, 4-5 7-8, 10-11 | 2-3, 5-6 8-9, 11-12* | L192 | 6 | 4TP201-51 | — | 4TP216-51 | 4TP4-51 |
| | 1-2, 4-5, 7-8, 10-11* | OFF | NONE** | L192 | 6 | 4TP201-61 | 4TP12-61 | 4TP216-61 | 4TP4-61 |
| | 1-2, 4-5, 7-8, 10-11 | 2-3, 4-5 | 2-3, 5-6, 8-9, 11-12 | L191 | 5 | 4TP201-10† | 4TP12-10 | — | 4TP4-10 |
| | 1-2, 4-5, 7-8, 10-11* | 2-3, 4-5 7-8, 11-12 | 2-3, 5-6, 8-9, 11-12 | L192 | 6 | 4TP201-50† | 4TP12-50 | 4TP216-50 | 4TP4-50 |
| 1-2, 4-5, 7-8, 10-11* | 2-3, 4-5 | 2-3, 5-6, 8-9, 11-12* | L192 | 6 | 4TP201-70† | 4TP12-70 | 4TP216-70 | 4TP4-70 | |

*These positions only are momentary. All others are maintained.

**Operator is blocked from these positions. Switch becomes two position, with center being one extreme position.

† Special on-on-on circuitry. See page 123.

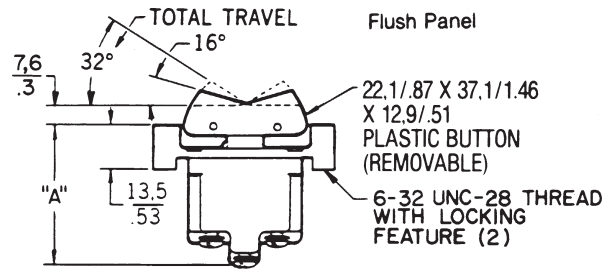
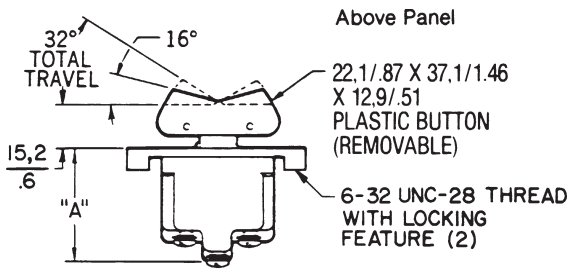
Toggle/Rockers

Manual Switches

Rocker Button Switches

TP Series

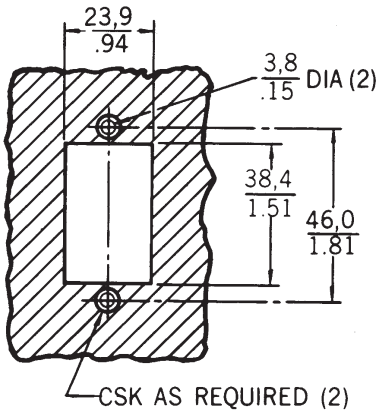
MOUNTING DIMENSIONS (For reference only)



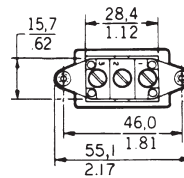
| DIM. "A" | |
|------------|-------------|
| 1-POLE | 29,5 / 1.16 |
| 2 & 4-POLE | 34,4 / 1.35 |

| DIM. "A" | |
|------------|-------------|
| 1-POLE | 36,8 / 1.45 |
| 2 & 4-POLE | 41,7 / 1.64 |

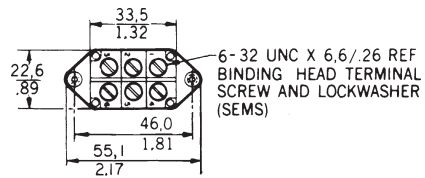
Panel cutout



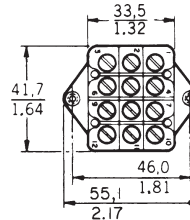
One pole



Two pole



Four pole



Key: $\frac{0,0}{0.00} = \text{mm}$
 $\frac{0,00}{0.00} = \text{inches}$

Flange mounting torque is 10-12 in./lbs.
Terminal screw mounting torque is 5 in./lbs. max.