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Sensing and Control  
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### Sensing and Control

Honeywell Inc.

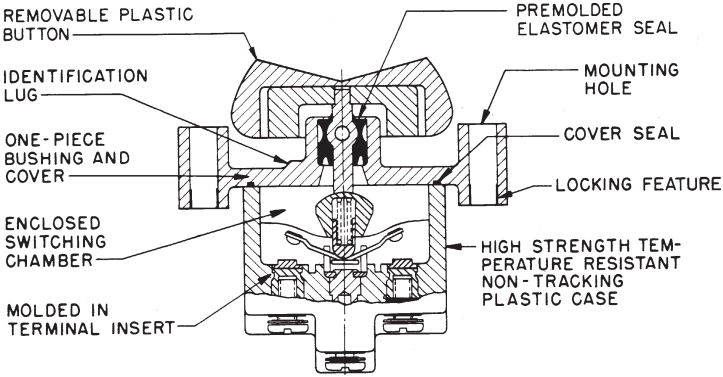
11 West Spring Street

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<br>3 Amps-125 VAC "L" |
| L191               | 15 amps-125, 250, 277 VAC; 1/2 Hp-125 VAC; 1Hp-250, 277 VAC<br>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

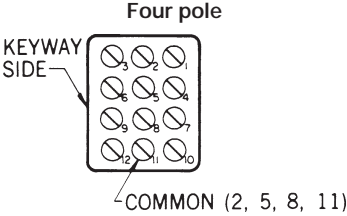
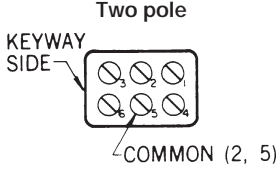
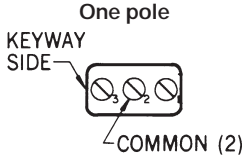
- 2 and 3 position pushbutton action
- Various button colors
- 1, 2, and 4 pole circuitry
- Flush panel and above panel mounting
- Temperature range is from -65°F to +160°F (-54°C to +71°C)
- UL recognized, CSA certified
- CE approved

### 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<br>8-9, 11-12  | L191               | 5                 | 4TP201-1           | 4TP12-1            | 4TP216-1           | 4TP4-1             |
|                          | 1-2, 4-5<br>7-8, 10-11*       | OFF                      | 2-3, 5-6<br>8-9, 11-12  | L192               | 6                 | 4TP201-5           | 4TP12-5            | —                  | 4TP4-5             |
|                          | 1-2, 4-5,<br>7-8, 10-11*      | OFF                      | 2-3, 5-6<br>8-9, 11-12* | L192               | 6                 | 4TP201-7           | 4TP12-7            | 4TP216-7           | 4TP4-7             |
|                          | NONE**                        | OFF                      | 2-3, 5-6,<br>8-9, 11-12 | L191               | 5                 | 4TP201-21          | 4TP12-21           | 4TP216-21          | 4TP4-21            |
|                          | NONE**                        | 1-2, 4-5<br>7-8, 10-11   | 2-3, 5-6,<br>8-9, 11-12 | L191               | 5                 | 4TP201-31          | —                  | 4TP216-31          | 4TP4-31            |
|                          | NONE**                        | 1-2, 4-5<br>7-8, 10-11   | 2-3, 5-6<br>8-9, 11-12* | L192               | 6                 | 4TP201-51          | —                  | 4TP216-51          | 4TP4-51            |
|                          | 1-2, 4-5,<br>7-8, 10-11*      | OFF                      | NONE**                  | L192               | 6                 | 4TP201-61          | 4TP12-61           | 4TP216-61          | 4TP4-61            |
|                          | 1-2, 4-5,<br>7-8, 10-11       | 2-3, 4-5                 | 2-3, 5-6,<br>8-9, 11-12 | L191               | 5                 | 4TP201-10†         | 4TP12-10           | —                  | 4TP4-10            |
|                          | 1-2, 4-5,<br>7-8, 10-11*      | 2-3, 4-5<br>7-8, 11-12   | 2-3, 5-6,<br>8-9, 11-12 | L192               | 6                 | 4TP201-50†         | 4TP12-50           | 4TP216-50          | 4TP4-50            |
| 1-2, 4-5,<br>7-8, 10-11* | 2-3, 4-5                      | 2-3, 5-6,<br>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.

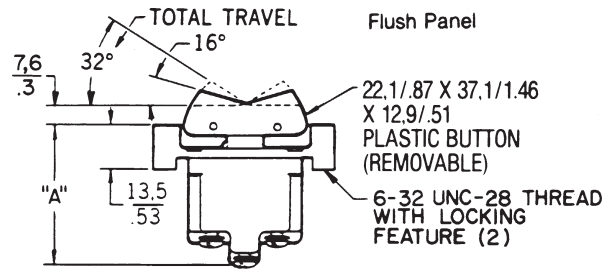
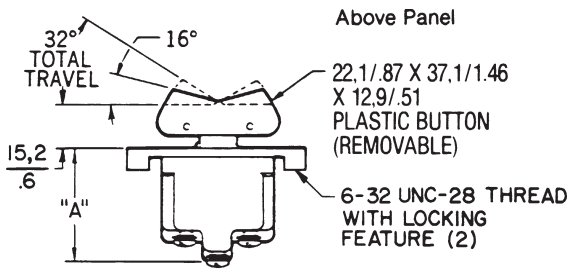
Toggle/Rockers

# Manual Switches

## Rocker Button Switches

TP Series

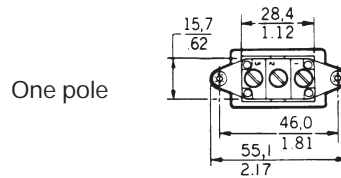
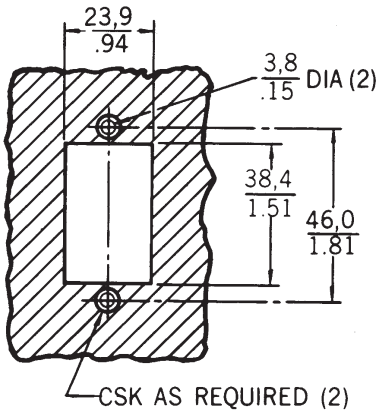
MOUNTING DIMENSIONS (For reference only)



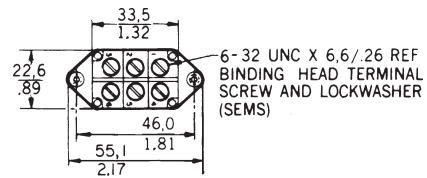
| DIM. "A"   |             |
|------------|-------------|
| 1-POLE     | 29,5 / 1.16 |
| 2 & 4-POLE | 34,4 / 1.35 |

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

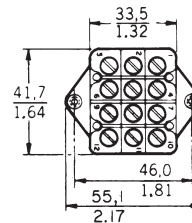
Panel cutout



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.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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