# P36 series

## Low profile rotary code switches

*Surface mount or through-hole*

Outside the US and the UK, this series is sold as the CR36 series.



- ❑ 3 actuator types
- ❑ Save board space
- ❑ Highly reliable
- ❑ Solder and flux sealed, washable

| P36 | | | | |
|---|---|---|---|---|
| SERIES | Mounting | Actuators | Codes | Terminals |
| | **(none)** Through-hole<br>**S** Surface mount | **1** Screwdriver<br>**3** Spindle<br>**8** Slotted spindle | **01** BCD<br>**02** BCD complement<br>**03** Hexadecimal<br>**06** Hexadec. complement | **(none)** Straight or SMT<br>**V** Crimped<br>**L254** Right angle, spacing 2,54 (.100) |

### ELECTRICALSPECIFICATIONS

- Operating voltage : 24 VDC max.
- Contact load, static : 400mA max.
- Contact load, dynamic : 100mA max.
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 100 MΩ min.

### MECHANICALANDTHERMALSPECS

- Torque : 0,7 Ncm min.
- Expected life : 10.000 cycles min.
- Operating temperature : -30°C to +90°C

### MATERIALS

- Base : UL94-V0, high temperature thermoplastic
- Cover : stainless steel
- Actuator : PA 4.6 nylon
- Contacts : gold over nickel plated phosphor bronze
- Terminals : tin plated

### SOLDERRECOMMENDATIONS

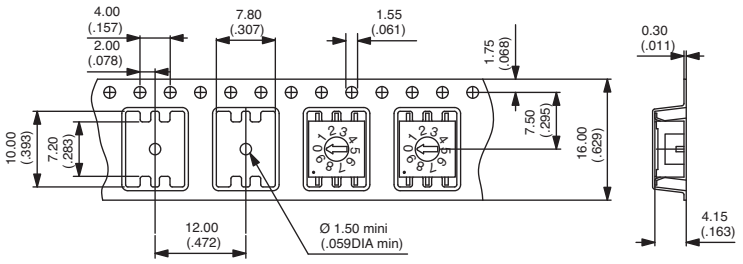
(DIN CEI 68-2-20)

- Manual soldering : 340°C max.for 2 seconds max.
- Wave soldering : 280°C max. for 5 seconds max.
- Reflow soldering : 260°C max. for 10 seconds max.

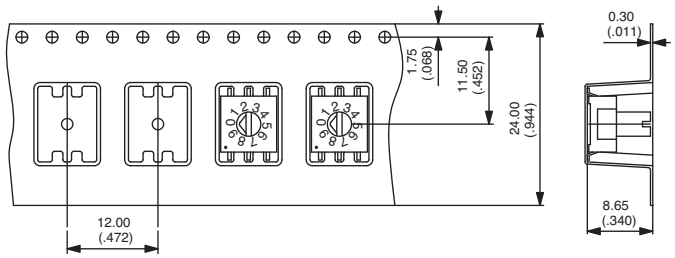
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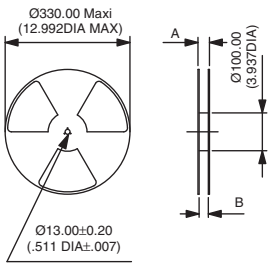
### PACKAGING

**P36S1..**
1300 pieces per reel
(dim.A = 22,4 mm
dim B = 16,4 mm)




**P36S3..**
**P36S8..**
600 pieces per reel
(dim.A = 30,4 mm
dim B = 24,4 mm)




- Reels : see above. To order a SMT product with tape & reel packaging, add "TR" at the end of its part number.
- Tubes : 50 pieces (through-hole or SMT) per tube.

**Dimensions** : first dimensions are in mm while inches are shown as bracketed numbers.

# P36 series

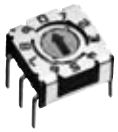
## Low profile rotary code switches

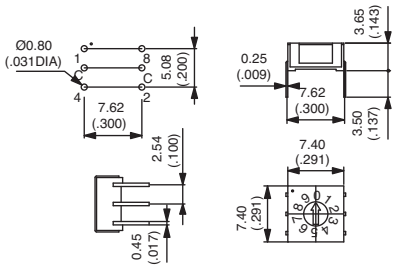
*Surface mount or through-hole*

## MOUNTING

P36

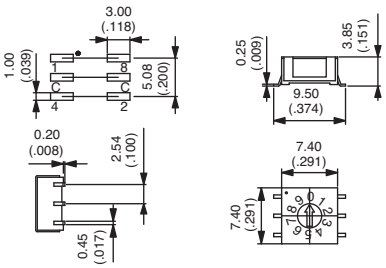
**(none)** Through-hole






**S** Surface mount

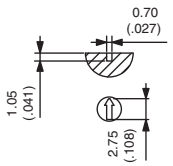




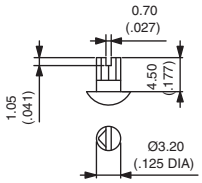

## ACTUATORS

P36

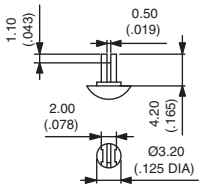
**1** Screwdriver




**3** Spindle




**8** Slotted spindle




**Actuator colour**
depending on codes

| | |
|---|---|
| BCD | red |
| BCD compl. | orange |
| Hexadecimal | grey |
| Hexadec. compl. | white |

## CODES / TRUTH TABLES

P36

**01** BCD

| | C | 1 | 2 | 4 | 8 | |
|---|---|---|---|---|---|---|
| 0 | ● | | | | | 0 |
| 1 | ● | ● | | | | 1 |
| 2 | ● | | ● | | | 2 |
| 3 | ● | ● | ● | | | 3 |
| 4 | ● | | | ● | | 4 |
| 5 | ● | ● | | ● | | 5 |
| 6 | ● | | ● | ● | | 6 |
| 7 | ● | ● | ● | ● | | 7 |
| 8 | ● | | | | ● | 8 |
| 9 | ● | ● | | | ● | 9 |

▲ Position ▲ Marking

**02** BCD complement

| | C | 1 | 2 | 4 | 8 | |
|---|---|---|---|---|---|---|
| 0 | ● | ● | ● | ● | ● | 0 |
| 1 | ● | | ● | ● | ● | 1 |
| 2 | ● | ● | | ● | ● | 2 |
| 3 | ● | | | ● | ● | 3 |
| 4 | ● | ● | ● | | ● | 4 |
| 5 | ● | | ● | | ● | 5 |
| 6 | ● | ● | | | ● | 6 |
| 7 | ● | | | | ● | 7 |
| 8 | ● | ● | ● | ● | | 8 |
| 9 | ● | | ● | ● | | 9 |

**03** Hexadecimal

| | C | 1 | 2 | 4 | 8 | |
|---|---|---|---|---|---|---|
| 0 | ● | | | | | 0 |
| 1 | ● | ● | | | | 1 |
| 2 | ● | | ● | | | 2 |
| 3 | ● | ● | ● | | | 3 |
| 4 | ● | | | ● | | 4 |
| 5 | ● | ● | | ● | | 5 |
| 6 | ● | | ● | ● | | 6 |
| 7 | ● | ● | ● | ● | | 7 |
| 8 | ● | | | | ● | 8 |
| 9 | ● | ● | | | ● | 9 |
| 10 | ● | | ● | | ● | A |
| 11 | ● | ● | ● | | ● | B |
| 12 | ● | | | ● | ● | C |
| 13 | ● | ● | | ● | ● | D |
| 14 | ● | | ● | ● | ● | E |
| 15 | ● | ● | ● | ● | ● | F |

**06** Hexadecimal complement

| | C | 1 | 2 | 4 | 8 | |
|---|---|---|---|---|---|---|
| 0 | ● | ● | ● | ● | ● | 0 |
| 1 | ● | | ● | ● | ● | 1 |
| 2 | ● | ● | | ● | ● | 2 |
| 3 | ● | | | ● | ● | 3 |
| 4 | ● | ● | ● | | ● | 4 |
| 5 | ● | | ● | | ● | 5 |
| 6 | ● | ● | | | ● | 6 |
| 7 | ● | | | | ● | 7 |
| 8 | ● | ● | ● | ● | | 8 |
| 9 | ● | | ● | ● | | 9 |
| 10 | ● | ● | | ● | | A |
| 11 | ● | | | ● | | B |
| 12 | ● | ● | ● | | | C |
| 13 | ● | | ● | | | D |
| 14 | ● | ● | | | | E |
| 15 | ● | | | | | F |

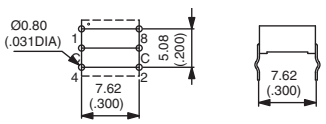
## TERMINALS

P36

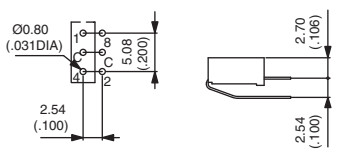
**(none)** Straight or SMT




**V** Crimped




**L254** Right angle, spacing 2,54 (.100)




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