

Rotary Code Switch

SMT Gull Wing Surface Mount Technology



Highlights

- Solid PCB pins
- Contacts with abrasion resistant hard gold plating
- Central C-contact
- Extra sealed design with high temperature resistance
- Switches are solder and flux sealed and washable
- 100 % electronic inspection and testing
- 90° turned zero position available

Mechanical Data

Type	horizontal
Fixation mode	SMT
Height	3.85 mm
Length	7.4 mm
Width	7.4 mm
Pin connection	3+3
Torque	1.2 ± 0.2 Ncm
Mechanical lifetime	25.000 steps
Positions per rotation	10 16 - more versions on request
Perm. ambient temperature	-50 °C ... +125 °C
Perm. storage temperature	-55 °C ... +135 °C
Degree of protection	comparable IP67
Sealing	O-Ring
Humidity	21 days at 40 °C, 93 %RH
Sinus-vibration testing	acc. IEC 68-2-6
Frequency range	10 Hz ... 500 Hz ... 10 Hz, sliding
Amplitude	6.0 mm
Acceleration	10.0 g
Shock testing	acc. IEC 68-2-27
Shock acceleration amplitude	50.0 g
Duration of nominal shock	11.0 ms
Directions	6 (±x, ±y, ±z) 3 times each



PTR HARTMANN

A Phoenix Mecano Company

Technical data

// P36SMT 1 03 -

Rotary Code Switch

SMT Gull Wing Surface Mount Technology

Mechanical Data

Reflow soldering JEDEC J-STD-020 E

Iron soldering 4 s / 350 °C

Electrical Data

Operating voltage ≤ 42.0 V

Standby current ≤ 0.4 A

Contact load, dynamic ≤ 0.1 A

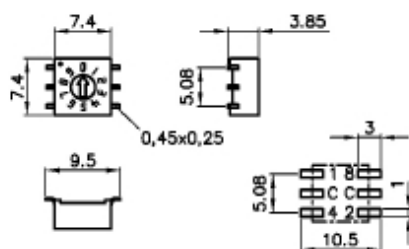
Minimum load 1.0 μ A 20.0 mVDC

Test voltage 250.0 V 50 Hz / 1.0 min

Contact resistance < 80.0 mOhm

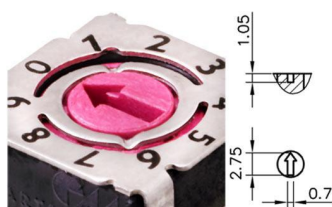
Insulation resistance > 100.0 MOhm

Technical Drawing



Configuration

Actuators



Arrow-shaped slot

Technical data // P36SMT 1 03 -

Rotary Code Switch
SMT Gull Wing Surface Mount Technology

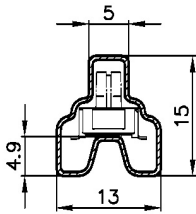
Codes

Code 03 -
Hexadecimal

Position	Terminals					Marking
	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

Hexadecimal, 16

Packing



Tube