Technical data // P36SMT 1 03 TR

PTR HARTMANN
A Phoenix Mecano Company

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

Downloaded from Arrow.com.

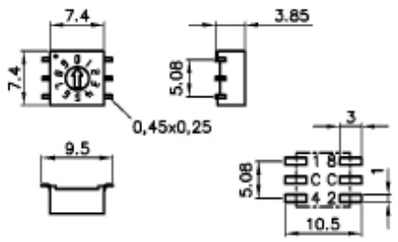
PTR HARTMANN
A Phoenix Mecano Company

Rotary Code Switch

SMT Gull Wing Surface Mount Technology

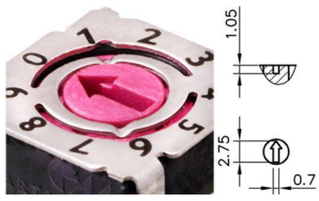
Mechanical Data	
Reflow soldering	JEDEC J-STD-020 E
Iron soldering	4 s / 350 °C
Electrical Data	
Operating voltage	<= 42.0 V
Standby current	<= 0.4 A
Contact load, dynamic	<= 0.1 A
Minimum load	1.0 µA 20.0 mVDC
Test voltage	250.0 V 50 Hz / 1.0 min
Contact resistance	< 80.0 mOhm
Insulation resistance	> 100.0 MOhm

Technical Drawing



Configuration

Actuators



Arrow-shaped slot

Downloaded from Arrow.com.

Rotary Code Switch

SMT Gull Wing Surface Mount Technology

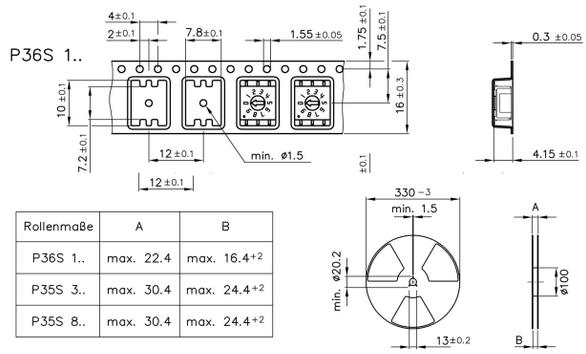
Codes

Code 03 - Hexadecimal

Position	Terminals C	1	2	4	8	Marking
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

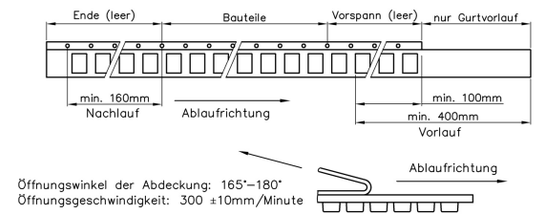
Hexadecimal, 16

Packing



Rollenmaße	A	B
P36S 1..	max. 22.4	max. 16.4+2
P35S 3..	max. 30.4	max. 24.4+2
P35S 8..	max. 30.4	max. 24.4+2

Gurtvorlauf und –nachlauf



Tape on Reel Packing SMT1 | SMT7

Downloaded from Arrow.com.