



PTR HARTMANN

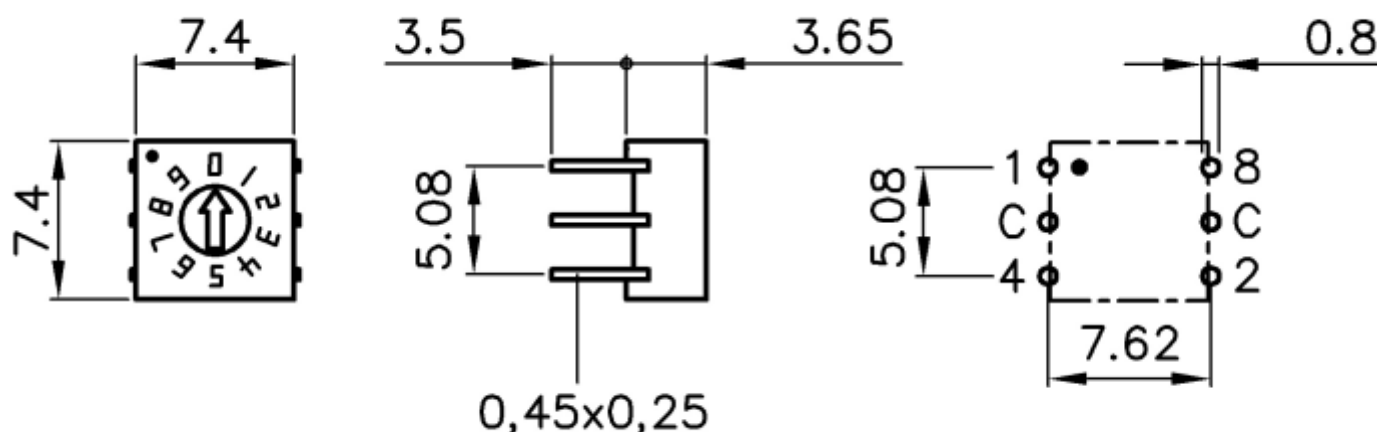
A Phoenix Mecano Company

P36THR



- Solid PCB pins
- Central C-contact
- Contacts with abrasion resistant hard gold plating
- 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

Solid PCB pins ensure trouble-free assembly and safe connection. Contacts with abrasion resistant hard gold plating have low and stable contact resistance. ISO 9001 approved production together with 100% electronic final inspection and testing guarantee reliable operation. Figures are clearly visible and detention mechanism is precise for fast and easy operation. Many special designs are available on request or can be built according to customer's specification.



Mechanical Data	Electrical Data
Type	horizontal
Fixation mode	THR
Height	3.65 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
THR through holes	plated through
THR PCB hole diameter	0.8 mm
Outside diameter plated land	1.8 mm
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
Reflow soldering	JDEC J-STD-020 E
Wave soldering	Double Wave acc. DIN EN 61760-1:2006
Iron soldering	4 s / 350 °C

Mechanical Data

Electrical Data

Operating voltage	$\leq 42.0 \text{ V}$
Standby current	$\leq 0.4 \text{ A}$
Contact load, dynamic	$\leq 0.1 \text{ A}$
Minimum load	$1.0 \mu\text{A}$ 20.0 mVDC
Test voltage	250.0 V 50 Hz / 1.0 min
Contact resistance	$< 80.0 \text{ m}\Omega$
Insulation resistance	$> 100.0 \text{ M}\Omega$