

**Miniaturized - Conductive Plastic**



- 40 Million Cycles Life Span
- Panel or Surface Mount
- Stainless Steel Shaft
- Shaft Spring Return (optional)

Compact design features long life, high resolution conductive plastic element. Shaft spring return (internal) option acts to maintain shaft extended. Strong duroplast housing and snap-on terminals that are also solderable. Available in 10, 15, 20 and 30mm stroke lengths.

Electrical Specifications	MM 11	MM 15	MM 20	MM 30
Stroke Lengths (mm)	10	15	20	30
Resistance Values	1, 2, 5, 10 20, 50 (K ohms)			
Resistance Tolerance (standard)	± 10%			
Linearity Tolerance (standard)	± 2%	± 1%		
Linearity Tolerance (optional)	± 1%	± 0.5%		
Resolution	Essentially infinite (<0.01mm)			
Output Smoothness	< 0.1% against input voltage			
Power @ 40°	0.2 W	0.3 W	0.4 W	0.5 W
Temperature Coefficient	400 ppm/K			
Contact Resistance Variation	<2%			
Insulation Resistance	>1,000 Mohm @ 500 VDC			
Dielectric Strength	1 minute @ 1000 VAC			
Maximum Wiper Current	1mA			
Recommended Wiper Current	<1mA			
Mechanical Specifications				
Mechanical Stroke (mm)	10 <sup>+2</sup>	15 <sup>+2</sup>	20 <sup>+2</sup>	30 <sup>+2</sup>
Maximum Operating Friction	< 0.3N (30gf)			
Stopper Strength	20 (N)			
Weight	30 (g)			
Life Expectancy - Shaft Cycles	40 million (20 million with shaft spring return option)			
Displacement Speed	2 m/s			
Vibration	15 g/10Hz to 2,000 Hz			
Shock	50 g/11ms			
Dimension A (±1mm)	37	37	52	52
Dimension B (±0.1mm)	11	16	21	31
Dimension C (±0.5mm)	26	31	36	46
Dimension D (±1.5mm)	27	27	42	42

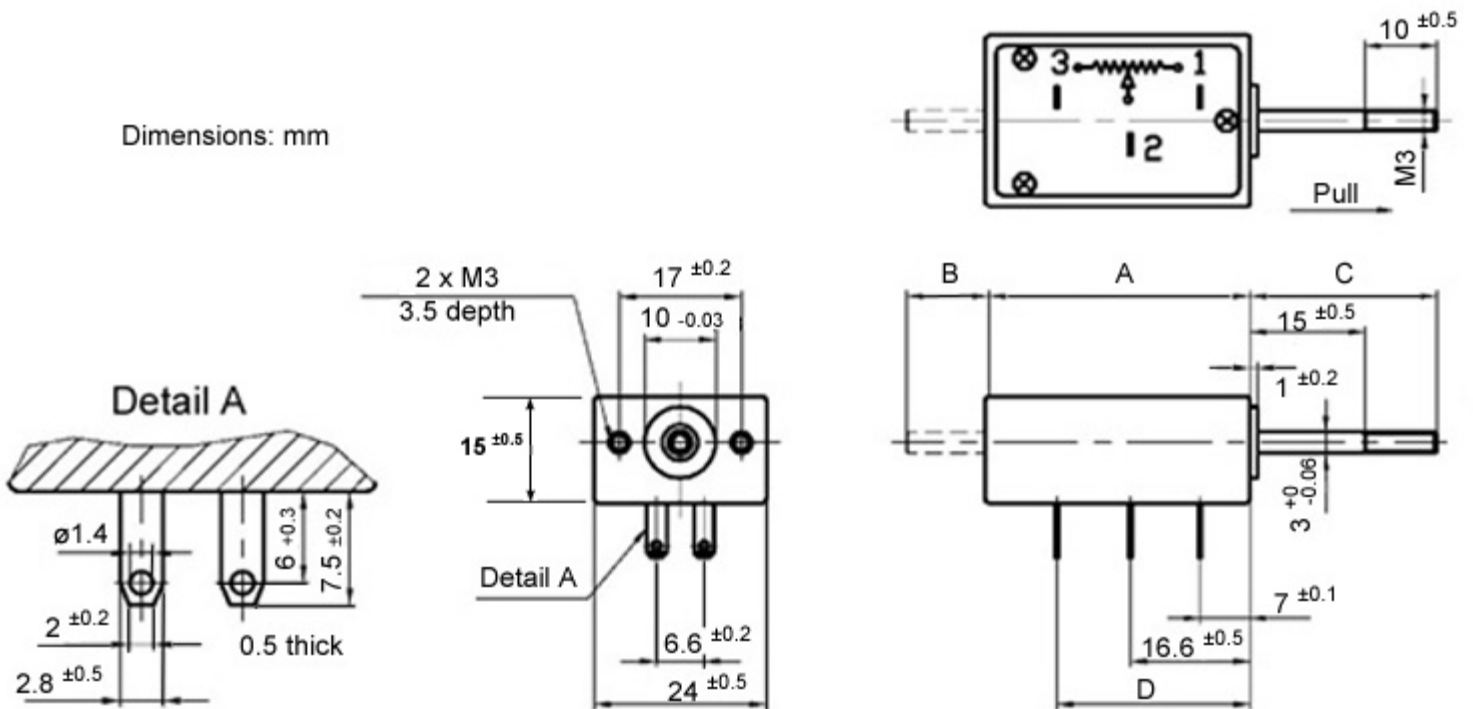
## Environmental Specifications

Operating Temperature	-25°C to +105°C
Storage Temperature	-40°C to +125°C
IP Protection Grade	IP40 (IP54 optional)
Standards	MIL-R-19, MIL-R-12934

## Materials

Housing	Duroplast
Shaft	Stainless steel
Terminals	Gold plated (accepts AMP 110 faston terminals, or solderable)

## Dimensions (mm)



## Options

- Spring return (friction 3N) - Special resistance values - IP54 Sealing - Shaft machining

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