

# Miniature Enclosed Limit Switch

**RoHS  
Compliant**

## Characteristics

Degree of protection		IP65
Rating	IEC 60947-5-1	AC-12 250V AC / 5A, DC-12 125V DC / 0.4A
	UL508	250V AC / 15A, 125V DC / 0.4A
Durability	Mechanical	10,000,000 operations min.
	Electrical	300,000 operations min. (5A at 250V AC, resistive load)
Operating Speed		5mm ~ 0.5m/s
Operating Frequency	Mechanical	120 operations /min.
	Electrical	30 operations /min.
Rated Frequency		50/60Hz
Insulation Resistance		100MΩ min. (at 500V DC)
Contact Resistance		25mΩ max. (Initial value)
Dielectric Strength	Between terminals of same polarity	1,000V AC 50/60Hz for 1min
	Between current-carrying metal parts and ground	1,500V AC 50/60Hz for 1min
Rated insulation voltage (Ui)		250V
Pollution degree (Application environment)		3 (EN60947-5-1)
Conditional short-circuit current		100A(EN60947-5-1)
Rated open thermal current (Ith)		5A(EN60947-5-1)
Electric shock protection class		Class I
Vibration Resistance	Malfunction	10~55 Hz 1.5mm double amplitude
Shock Resistance	Destruction	1,000m/s <sup>2</sup> (free position) min.
	Malfunction	300m/s <sup>2</sup> (operation limit position) min.
Ambient operating temperature range		-20°C ~ +60°C with no icing
Ambient operating humidity range		90% RH Max.

### Notes:

1. Above values of these characteristics are initial values.
2. Above values of these characteristics may be depending on different models.
3. Above durability is for an ambient temperature of 5 to 35°C and ambient humidity of 40% to 70%.

## Operating Characteristics

Part Number	Operating Force (Max.)	Release Force (Min.)	Pre Travel (Max.)	Over Travel (Min.)	Movement Differential (Max.)	TTP	Operating Position
MC002421	9.8N	2.94N	1.5mm	4mm	1.2mm	5.5mm	26 ±0.8mm
MC002422	9.8N	2.94N	1.5mm	4mm	1.2mm	5.5mm	37 ±0.8mm

# Miniature Enclosed Limit Switch

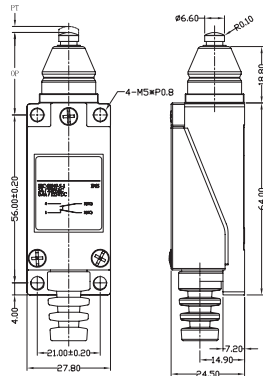
Part Number	Operating Force (Max.)	Release Force (Min.)	Pre Travel (Max.)	Over Travel (Min.)	Movement Differential (Max.)	TTP	Operating Position
MC002423	9.8N	2.94N	1.5mm	4mm	1.2mm	5.5mm	37 ±0.8mm
MC002424	5.88N	0.49N	20°	75°	10°	95°	-
MC002425	7.84N	0.49N	20°	75°	10°	95°	-
MC002426	5.88N	0.69N	20°	75°	10°	95°	-
MC002427	0.88N	-	30mm	-	-	-	-
MC002428	0.88N	-	30mm	-	-	-	-

## Sealed Push Plunger



**MC002421**

Weight: 116.4g

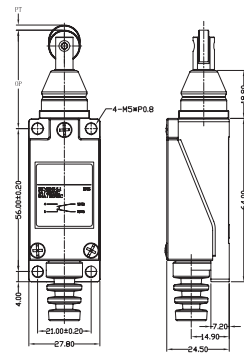


## Sealed Roller Plunger



**MC002422**

Weight: 121.7g

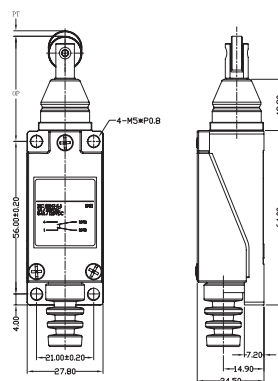


## Sealed Crossroller Plunger



**MC002423**

Weight: 122g

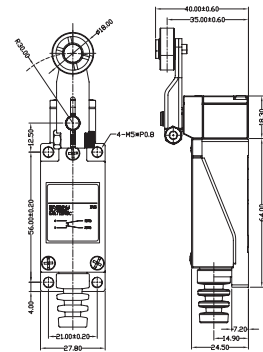


## Standard Roller Lever



**MC002424**

Weight: 147.4g



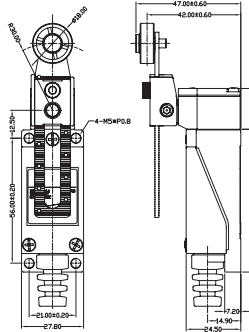
Dimensions : Millimetres

# Miniature Enclosed Limit Switch

## Adjustable Roller Lever



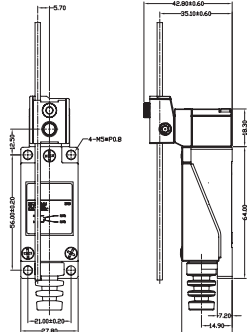
**MC002425**  
Weight: 120.5g



## Adjustable Rod Lever



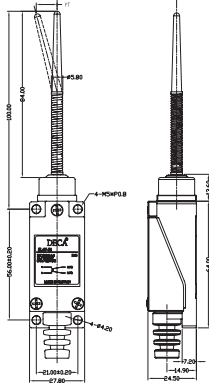
**MC002426**  
Weight: 158.8g



## Omnidirectional Coil Spring



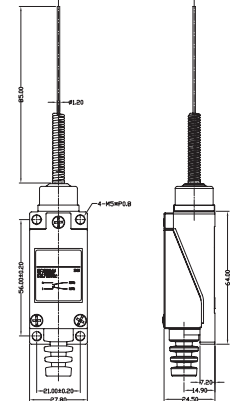
**MC002427**  
Weight: 114g



## Omnidirectional Wire Spring



**MC002428**  
Weight: 112.5g



Dimensions : Millimetres

## Part Number Table

Description	Part Number
Vertical Limit Switch, Miniature Enclosed (IP65), Sealed Push Plunger, Screw Terminal	MC002421
Vertical Limit Switch, Miniature Enclosed (IP65), Sealed Roller Plunger, Screw Terminal	MC002422
Vertical Limit Switch, Miniature Enclosed (IP65), Sealed Crossroller Plunger, Screw Terminal	MC002423
Vertical Limit Switch, Miniature Enclosed (IP65), Standard Roller Lever, Screw Terminal	MC002424
Vertical Limit Switch, Miniature Enclosed (IP65), Adjustable Roller Plunger, Screw Terminal	MC002425
Vertical Limit Switch, Miniature Enclosed (IP65), Adjustable Rod Lever, Screw Terminal	MC002426
Vertical Limit Switch, Miniature Enclosed (IP65), Omnidirectional Coil Spring, Screw Terminal	MC002427
Vertical Limit Switch, Miniature Enclosed (IP65), Omnidirectional Wire Spring, Screw Terminal	MC002428

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