

# High Utility Enclosed Switches **multicomp** PRO

## Features

- Enclosed switches with built-in basic switches for high repeatability and durability of 10 million operations minimum
- Suitable for applications demanding higher mechanical strength, dust proof and drip-proof properties than those on basic switches. Resin molded terminal versions are available.
- Approved by EN(TUV), UL, CSA, CCC.

## Characteristics

Degree of protection		IP67
Rating	IEC 60947-5-1	AC-12 250V AC / 10A
	UL508	A300 250V AC / 15A
Durability	Mechanical	10,000,000 operations min.
	Electrical	500,000 operations min.
Operating Speed		0.05mm/s ~ 0.5m/s
Operating Frequency	Mechanical	120 operations /min.
	Electrical	20 operations /min.
Rated Frequency		50/60Hz
Insulation Resistance		100MΩ min. (at 500V DC)
Contact Resistance		15mΩ max. (Initial value for the built-in switch when tested alone )
Terminal Temperature Rise		50°C max.
Dielectric Strength	Between terminals of same polarity	1,000V AC 50/60Hz for 1min
	Between current-carrying metal parts and ground	2,000V AC 50/60Hz for 1min
	Between each terminal and non-current-carrying metal part	AC2,000V 50/60Hz for 1min
Rated insulation voltage (Ui)		1,000V AC
Pollution degree (Application environment)		3 (IEC947-5-1)
Rated operating current(Ie)		10A
Degree of protection against electric shock		Class II
Vibration Resistance	Malfunction	10~55Hz 1.5mm double amplitude
Shock Resistance	Destruction	1,000m/s <sup>2</sup> min.
	Malfunction	100m/s <sup>2</sup> min.
Ambient operating temperature range		-10°C ~ +80°C with no icing
Ambient operating humidity range		35% ~ 95% RH

### Notes:

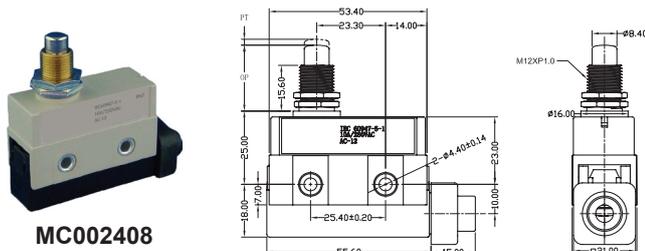
1. Above values of these characteristics are initial values.
2. Above values of these characteristics may be depending on different models.
3. Above durability is for an ambient temperature of 5 to 35°C and ambient humidity of 40% to 70%.

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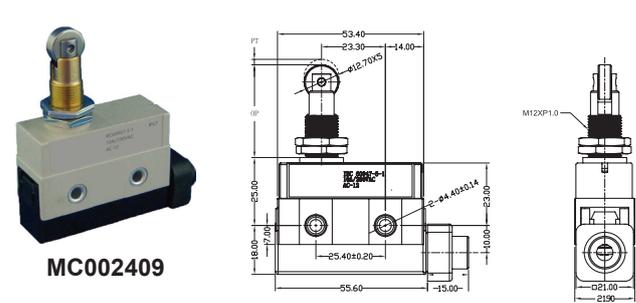
## Operating Characteristics

Part Number	Operating Force (Max.)	Release Force (Min.)	Pre Travel (Max.)	Over Travel (Min.)	Movement Differential (Max.)	Free Position (Min.)	Operating Position
MC002408	5.88N	0.98N	1.6mm	5mm	0.2mm	-	21.8 ±1.2mm
MC002409	5.88N	0.98N	1.6mm	5mm	0.2mm	-	33.4 ±1.2mm
MC002410	5.88N	0.98N	1.6mm	5mm	0.2mm	-	33.4 ±1.2mm
MC002411	1.96N	0.39N	-	5mm	3mm	51mm	40 ±1mm
MC002412	2.94N	0.39N	-	2mm	1.5mm	47mm	40 ±1mm
MC002413	2.94N	0.39N	-	2mm	1.5mm	57.2	40 ±1mm
MC002414	1.67N	0.25N	-	4mm	3mm	36mm	25 ±1mm
MC002415	2.55N	0.34N	-	2.5mm	1.7mm	33mm	25 ±1mm

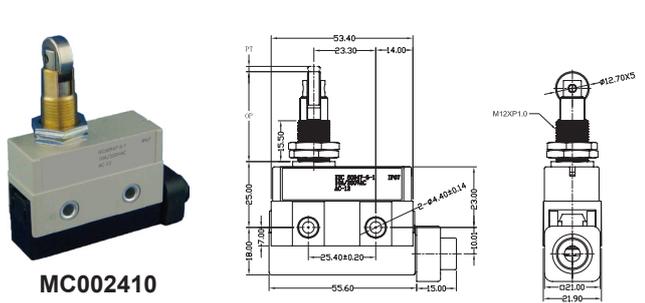
### Panel Mount Plunger



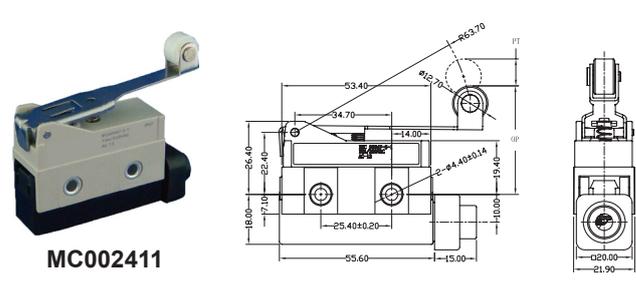
### Panel Mount Roller Plunger



### Panel Mount Crossroller Plunger



### Hinge Roller Lever



Dimensions : Millimetres

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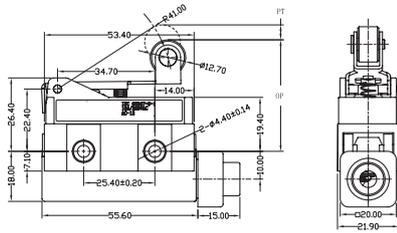
# High Utility Enclosed Switches **multicomp** PRO

## Short Hinge Roller Lever



**MC002412**

Weight: 62.7g

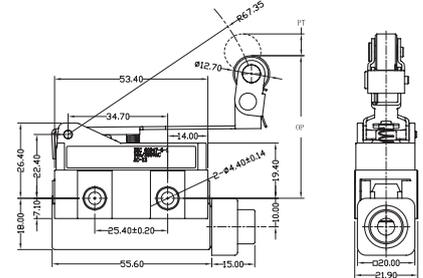


## One-Way Action Short Hinge Roller Lever



**MC002413**

Weight: 67.5g

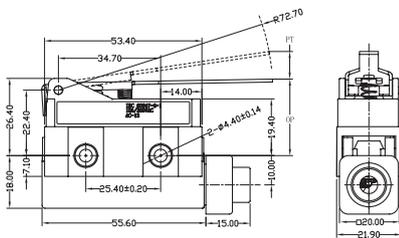


## Hinge Lever



**MC002414**

Weight: 60.7g

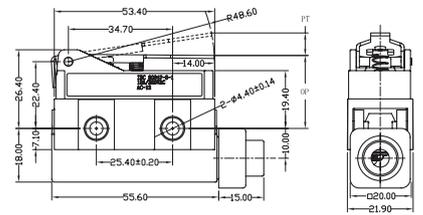


## Short Hinger Lever



**MC002415**

Weight: 59.3g



Dimensions : Millimetres

## Part Number Table

Description	Part Number
Horizontal Limit Switch, High Utility Enclosed, Panel Mount Plunger, Screw Terminal	MC002408
Horizontal Limit Switch, High Utility Enclosed, Panel Mount Roller Plunger, Screw Terminal	MC002409
Horizontal Limit Switch, High Utility Enclosed, Panel Mount Crossroller Plunger, Screw Terminal	MC002410
Horizontal Limit Switch, High Utility Enclosed, Hinger Roller Lever, Screw Terminal	MC002411
Horizontal Limit Switch, High Utility Enclosed, Short Hinge Roller Lever, Screw Terminal	MC002412
Horizontal Limit Switch, High Utility Enclosed, One-Way Action Short Hinge Roller Lever, Screw Terminal	MC002413
Horizontal Limit Switch, High Utility Enclosed, Hinge Lever, Screw Terminal	MC002414
Horizontal Limit Switch, High Utility Enclosed, Short Hinger Lever, Screw Terminal	MC002415

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