Safety Limit Switch



Features

- · NC contacts direct opening mechanism added (able to open contacts when faults occur)
- · Strengthen the head seal structure to increase seal properties
- Wide ambient operating temperature range: -40°C ~ +80°C
- Approved by UL, CSA, CCC, EN(TUV)

Characteristics

	IP67 (EN60947-5-1)							
Detine	IEC 60947-5-1	AC-15 400V AC / 2A						
Rating	UL508	A600 250V AC / 15A						
Durability	Mechanical	30,000,000 operations min. (snap-action) 10,000,000 operations min. (slow-action)						
	Electrical	500,000 operations min. (10A resistive load at 250V AC)						
	1mm/s to 0.5m/s							
Operating Frequency	Mechanical	120 operations /min						
Operating Frequency	Electrical	30 operations /min						
	50/60Hz							
	100MΩ min.							
	25mΩ max. (initial value)							
	Between terminals of same polarity	Uimp 2.5kV (snap-action) Uimp 4kV (slow-action)						
Dielectric Strength	Between terminals of different polarity	Uimp 4kV (slow-action)						
	Between current-carrying metal parts and ground	Uimp 4kV						
	Between each terminal and non-current-carrying metal part	Uimp 4kV						
	600V (EN60947-5-1)							
	1500V max. (EN60947-5-1)							
Р	3 (EN60947-5-1)							
	100A (EN60947-5-1)							
Co	onventional enclosed thermal current(Ithe)	20A (EN60947-5-1)						
	Class I (with ground terminal)							
Vibration Resistance	Malfunction	10~55 Hz 0.75mm single amplitude						
Shock Resistance	Destruction	1,000m/s ² min.						
SHOCK RESISTANCE	Malfunction	300m/s² min.						
Ambient operating temperature range -40°C ~ +80°C with no ici								
	Ambient operating humidity range 95% RH Max.							

Notes:

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

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Safety Limit Switch



Operating Characteristics

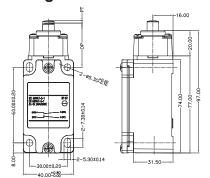
Part Number	Operating Force (Max.)	Release Force (Min.)	Pre Travel (Max.)	Over Travel (Min.)	Movement Differential (Max.)	Direct Opening Travel	Direct Opening Force	Total Trav- el	Free Position (Max.)	Operating Position
MC002441	18.63N	1.96N	2mm / 3mm	5mm	1mm	3.2mm	49.03N	7mm	38mm	35° ±1mm
MC002442	18.63N	1.96N	2mm / 3mm	5mm	1mm	3.2mm	49.03N	7mm	51mm	48° ±1mm
MC002443	18.63N	1.96N	2mm / 3mm	5mm	1mm	3.2mm	49.03N	7mm	51mm	48° ±1mm
MC002444	9.41N	1.47N	21° ± 3°/45°	50°	12°	35° / 55°	19.61N	(75°)	-	-
MC002445	9.41N	1.47N	21° ± 3°/45°	50°	12°	35° / 55°	19.61N	(75°)	-	-
MC002446	2.12N	0.29N	21° ± 3°/45°	50°	12°	35° / 55°	19.61N	(75°)	-	-
MC002447	1.47N	-	15°	-	-	-	-	-	-	-
MC002448	1.47N	-	15°	-	-	-	-	-	-	-

Standard Pin Plunger



MC002441

Weight: 232.7g

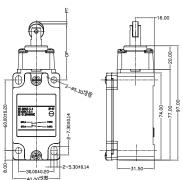


Top Roller Plunger



MC002442

Weight: 237.1g

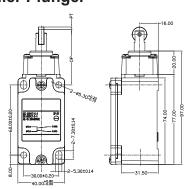


Top Crossroller Plunger



MC002443

Weight: 237.1g

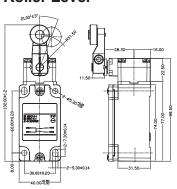


Vertical Standard Roller Lever



MC002444

Weight: 271.7g



Dimensions: Millimetres

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Safety Limit Switch



Adjustable Roller Lever



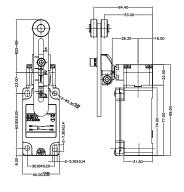
WIC002443

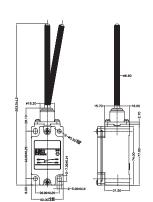
Weight: 304.5g

Coil Spring



Weight: 221.3g





Adjustable Rod Lever



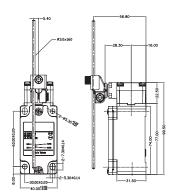
MC002446

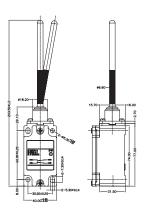
Weight: 284.6g

Plastic Rod



MC002448 Weight: 211.2g





Dimensions: Millimetres

Part Number Table

Description			
Vertical Safety Limit Switch, Standard Pin Plunger, Screw Terminal	MC002441		
Vertical Safety Limit Switch, Top Roller Plunger, Screw Terminal	MC002442		
Vertical Safety Limit Switch, Top Cross Roller Plunger, Screw Terminal	MC002443		
Vertical Safety Limit Switch, Vertical Standard Roller Lever, Screw Terminal	MC002444		
Vertical Safety Limit Switch, Adjustable Roller Lever, Screw Terminal	MC002445		
Vertical Safety Limit Switch, Adjustable Rod Lever, Screw Terminal	MC002446		
Vertical Safety Limit Switch, Coil Spring, Screw Terminal	MC002447		
Vertical Safety Limit Switch, Plastic Rod, Screw Terminal	MC002448		

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