

Miniature Safety Limit Switch



Characteristics

Degree of protection		IP67
Rating	IEC 60947-5-1	AC-15 240V AC / 3A, DC-13 250V DC / 0.27A
	UL508	A300 250V AC / 15A
Durability	Mechanical	1,000,000 operations min.
	Electrical	500,000 operations min. (3A resistive load at 250V) 300,000 operations min. (10A resistive load at 250V AC)
Operating Speed		0.05 to 0.5m/s
Operating Frequency	Mechanical	30 operations/minute max.
	Electrical	
Rated Frequency		50/60Hz
Insulation Resistance		100MΩ min.
Contact Resistance		25mΩ max.
Dielectric Strength	Between terminals of same polarity	2.5kV
	Between current-carrying metal parts and ground	4kV
	Between each terminal and non-current-carrying metal part	6kV
Rated insulation voltage (Ui)		300V
Pollution degree (Application environment)		3 (EN60947-5-1)
Conditional short-circuit current		100A (EN60947-5-1)
Conventional free air thermal current (Ith)		10A (EN60947-5-1)
Degree of protection against electric shock		Class II
Vibration Resistance	Malfunction	10~55 Hz 0.75mm single amplitude
Shock Resistance	Destruction	1,000m/s ² min.
	Malfunction	300m/s ² min.
Ambient operating temperature range		-30°C ~ +70°C with no icing
Ambient operating humidity range		95% Max.

Notes:

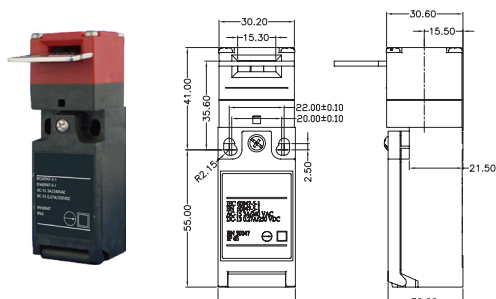
1. Above values of these characteristics are initial values.
2. Above values of these characteristics may be depending on different models.
3. Above durability is for an ambient temperature of 5 to 35°C and ambient humidity of 40% to 70%.

Operating Characteristics

Part Number	Key Insertion Force	Key Extraction Force	Pre Travel (Max.)	Total Travel	Direct Opening Force	Direct Opening Stroke
MC002456	15N	30N	6 ±3mm	28mm	60N	10mm
MC002457						
MC002458	15N	30N	6 ±3mm	28mm	60N	10mm
MC002459						

Miniature Safety Limit Switch

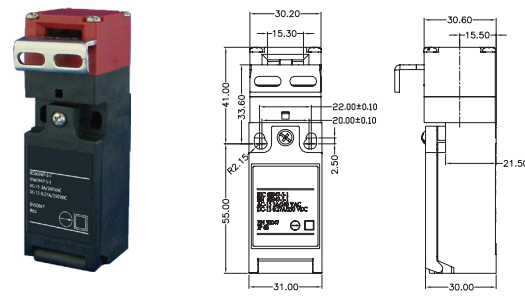
With Front-inserted Operation Key



MC002456

Weight: 120.6g

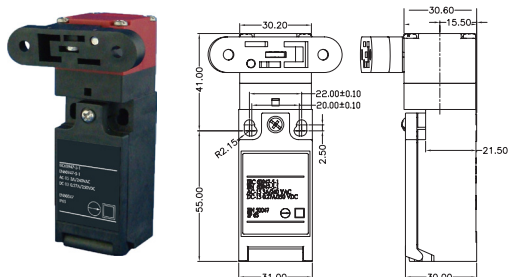
With Front-inserted Bending Operation Key



MC002457

Weight: 102.8g

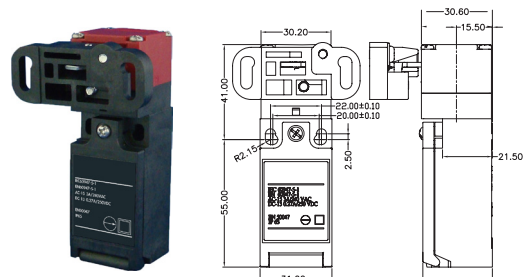
With Adjustable Front-inserted Operation Key in Horizontal Mount



MC002458

Weight: 108.8g

With Adjustable Front-inserted Operation Key in Horizontal and Vertical Mount



MC002459

Weight: 116.1g

Dimensions : Millimetres

Part Number Table

Description	Part Number
Vertical Limit Switch, Miniature Safety, w/ Front-Inserted Operation Key, Screw Terminal	MC002456
Vertical Limit Switch, Miniature Safety, w/ Front-Inserted Bending Operation Key, Screw Terminal	MC002457
Vertical Limit Switch, Miniature Safety, w/ Adjustable Front-Inserted Operation Key in Horizontal Mount, Screw Terminal	MC002458
Vertical Limit Switch, Miniature Safety, w/ Adjustable Front-Inserted Operation Key in Horizontal & Vertical Mount, Screw Terminal	MC002459

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