Two-Circuit Limit Switches

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Characteristics

|		
Degree of protection		IP67
Rating	IEC 60947-5-1	AC-15 250V AC / 2A, 48V DC / 2A
	UL508	A600 250V AC / 15A
Durability	Mechanical	15,000,000 operations
	Electrical	750,000 operations
Operating Speed		1mm ~ 1m/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	AC1,000V(600V) 50/60Hz for 1min
	Between current-carrying metal parts and ground	AC2,200V (1,500V) 50/60Hz 1min Uimp 2.5kV
	Between each terminal and non-current-carrying metal part	AC2,200V (1,500V) 50/60Hz 1min Uimp 2.5kV
Rated insulation voltage (Ui)		250V (EN60947-5-1)
Pollution degree (Application environment)		3 (EN60947-5-1)
Conditional short-circuit current		100A (EN60947-5-1)
Rated open thermal current (Ith)		10A, 0.5A (EN60947-5-1)
Degree of protection against electric shock		Class I
Vibration Resistance	Malfunction	10~55 Hz 1.5mm double amplitude
Shock Resistance	Destruction	1,000m/s^2 min.
	Malfunction	300m/s^2 min.
Ambient operating temperature range		-10°C ~ +80°C with no icing
Ambient operating humidity range		35% ~ 95%RH
Approved by		UL, CSA, CCC

Operating Characteristics

| Part Number	Operating Force (Max.)	Release Force (Min.)	Pre Travel (Max.)	Over Travel (Min.)	Movement Differential (Max.)	Operating Position	TTP
MC002429	26.67N	8.92N	1.7mm	6.4mm	1mm	34 ±0.8mm	29.5mm
MC002430	40.03N	8.89N	2.8mm	6.4mm	1mm	40.6 ±0.8mm	-
MC002431	26.67N	8.92N	1.7mm	5.6mm	1mm	44 ±0.8mm	39.5mm
MC002432	40.03N	8.89N	2.8mm	5.6mm	1mm	54.2 ±0.8mm	-
MC002433	16N	2.23N	15 ±5°	30°	12°	-	-
MC002434	16N	2.23N	15 ±5°	30°	12°	-	-

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Part Number	Operating Force (Max.)	Release Force (Min.)	Pre Travel (Max.)	Over Travel (Min.)	Movement Differential (Max.)	Operating Position	TTP
MC002435	1.39N	0.27N	15 ±5°	30°	12°	-	-
MC002436	11.77N	-	50 ±5°	55°	35°	-	-
MC002437	16.67N	4.41N	1.7mm	5.6mm	1mm	44 ±0.8mm	39.5mm
MC002438	26.67N	8.92N	1.7mm	4mm	1mm	44.5 ±0.8mm	41mm
MC002439	1.47N	-	20 ±10mm	-	-	-	-
MC002440	1.47N	-	40 ±10mm	-	-	-	-

Top Plunger
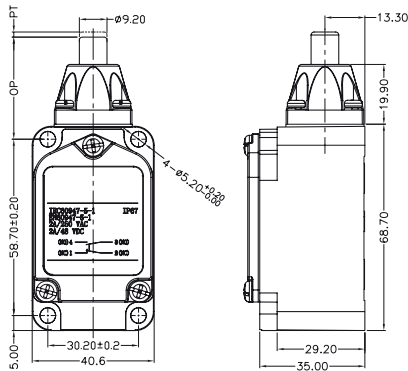
MC002429
Weight: 197.8g

Horizontal Plunger
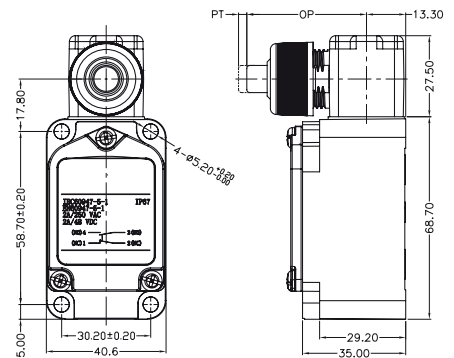
MC002430
Weight: 258.4g

Top-roller Plunger
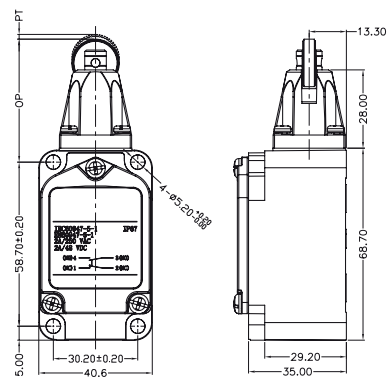
MC002431
Weight: 204.5g

Horizontal-roller Plunger
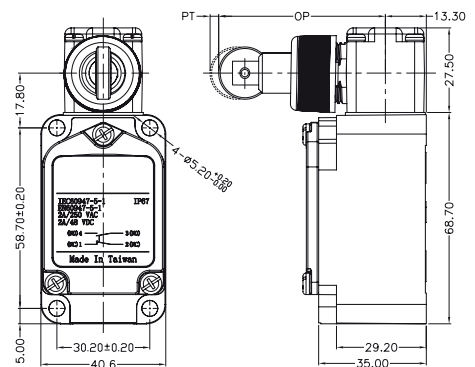
MC002432
Weight: 270.8g

Dimensions : Millimetres

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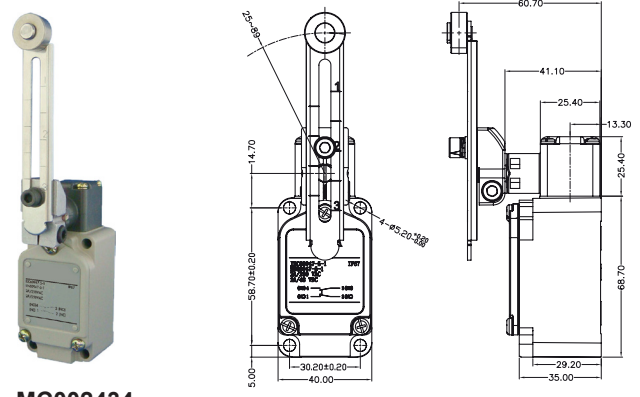
multicompPRO
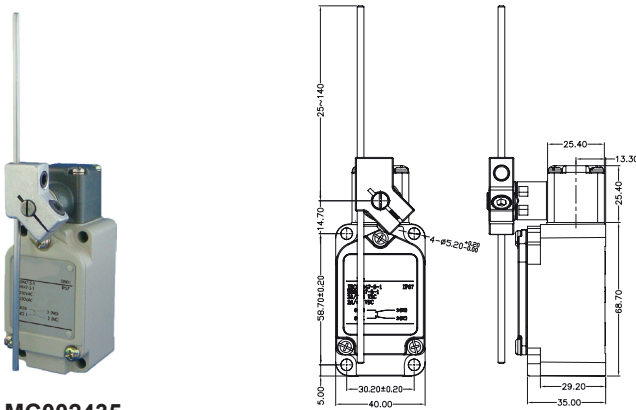
Vertical Standard Roller Lever
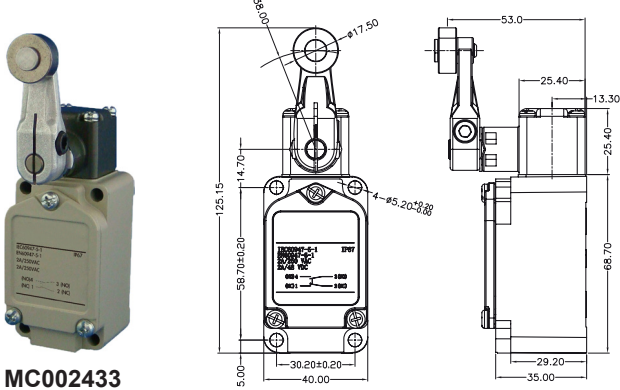
MC002433
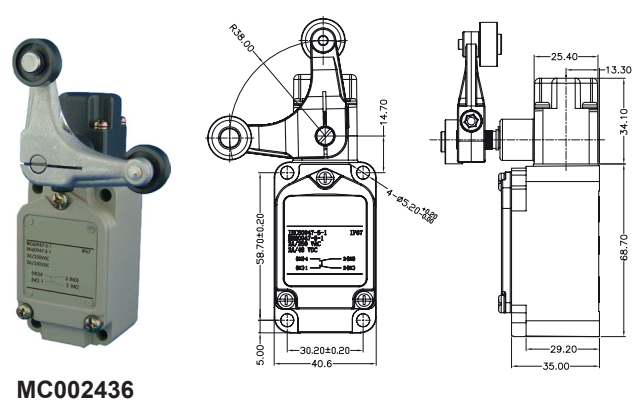Weight: 267.1g

Adjustable Roller Lever

MC002434
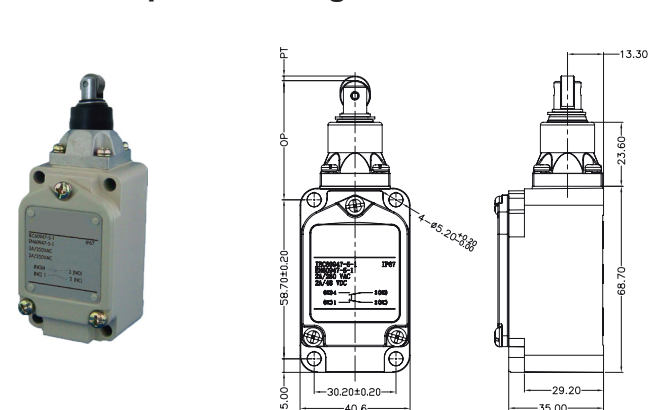Weight: 289.3g

Adjustable Rod Lever

MC002435
Weight: 266.3g
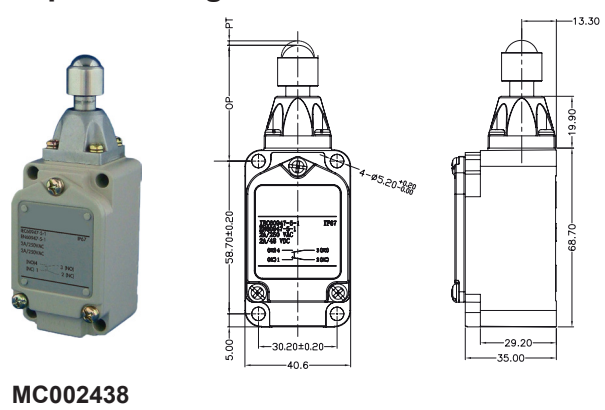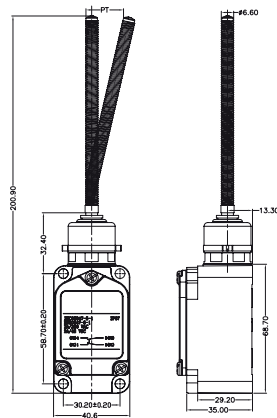
Fork Lever Lock

MC002436
Weight: 277.3g

Sealed Top-roller Plunger

MC002437
Weight: 207.1g

Top-ball Plunger

MC002438
Weight: 209.1g

Dimensions : Millimetres

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Coil Spring (Stainless Steal)

MC002439
Weight: 212.2g

Coil Spring (Resin Rod)

MC002440
Weight: 227g
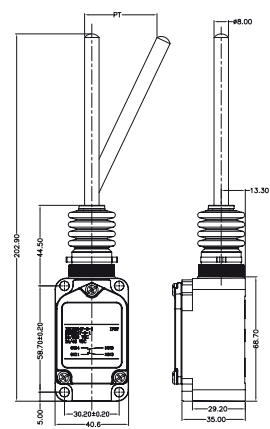
Dimensions : Millimetres

Part Number Table

Description	Part Number
Vertical Limit Switch, Two-Circuit, Top Plunger, Screw Terminal	MC002429
Vertical Limit Switch, Two-Circuit, Horizontal Plunger, Screw Terminal	MC002430
Vertical Limit Switch, Two-Circuit, Top-Roller Plunger, Screw Terminal	MC002431
Vertical Limit Switch, Two-Circuit, Horizontal-Roller Plunger, Screw Terminal	MC002432
Vertical Limit Switch, Two-Circuit, Vertical Standard Roller Lever, Screw Terminal	MC002433
Vertical Limit Switch, Two-Circuit, Adjustable Roller Lever, Screw Terminal	MC002434
Vertical Limit Switch, Two-Circuit, Adjustable Rod Lever, Screw Terminal	MC002435
Vertical Limit Switch, Two-Circuit, Fork Lever Lock, Screw Terminal	MC002436
Vertical Limit Switch, Two-Circuit, Sealed Top-Roller Plunger, Screw Terminal	MC002437
Vertical Limit Switch, Two-Circuit, Top-Ball Plunger, Screw Terminal	MC002438
Vertical Limit Switch, Two-Circuit, Coil Spring (Stainless Steel), Screw Terminal	MC002439
Vertical Limit Switch, Two-Circuit, Coil Spring (Resin Rod), Screw Terminal	MC002440

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