



Everyday's Solution



Control24.ir



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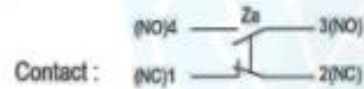


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Limit Switch Series

IS Series

- Compact new design approximately 3/1 the size of bigger vertical Limit Switches.
- Structure enables the terminal section to be fully opened for easy wiring.
- Degree of protection: IP65



Ratings

Rated voltage	Noninductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
Inrush Current	N.C.:24A N.C. below 24A, N.O.: below 12A				N.O.:12A N.C. below 24A, N.O.: below 12A			

Note:

1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

Characteristics

Operation speed	0.5mm-50cm/sec
Operating frequency	Mechanical: 120 operations/minute Electrical: 30 operations/minute
Contact resistance	25m Ω max. (initial value)
Insulation resistance	100m Ω min. (below 500VDC)
Dielectric strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60 Hz for 1 minute between each terminal and ground
Vibration	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/Sec ² (about 100G'S) Malfunction: 300m/sec ² (about 30G'S)
Ambient temperature	-5~+65°C (With no icing)
Humidity	<95% RH
Weight	About 130 to 190g
Degree of protection	IP65



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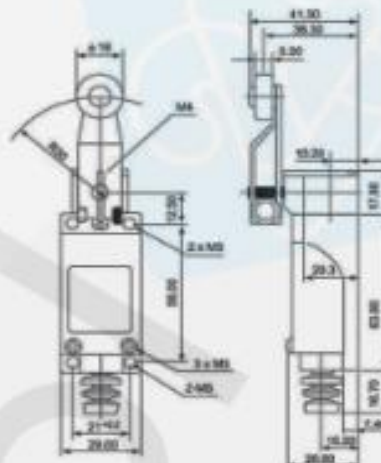
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IS-8104



Operating Characteristics

OF (Max)	5.88N
RF (Min)	0.49N
PT(Max)	20°
OT (Min)	75°
MD (Max)	10°
TT (Min)	95°
OP	-

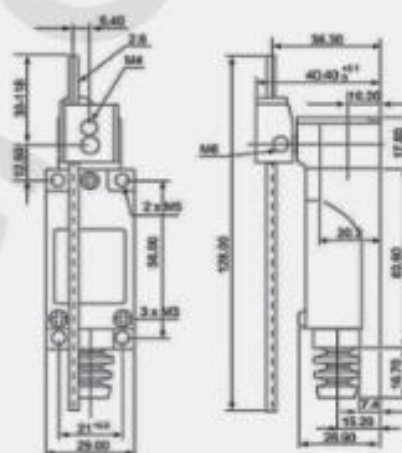


IS-8107



Operating Characteristics

OF (Max)	5.88N
RF (Min)	0.69N
PT(Max)	20°
OT (Min)	75°
MD (Max)	10°
TT (Min)	95°
OP	-

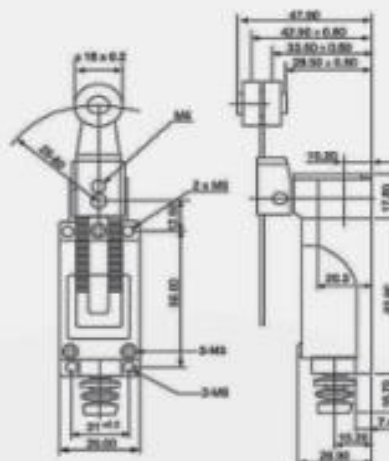


IS-8108



Operating Characteristics

OF (Max)	7.84N
RF (Min)	0.49N
PT(Max)	20°
OT (Min)	75°
MD (Max)	10°
TT (Min)	95°
OP	-



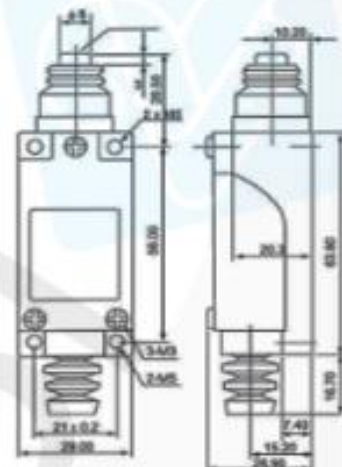
Limit Switch Series

IS-8111



Operating Characteristics

OF (Max)	9.8N
RF (Min)	2.94N
PT(Max)	1.5mm
OT (Min)	4mm
MD (Max)	1.2mm
TT (Min)	5.5mm
OP	26±0.8mm

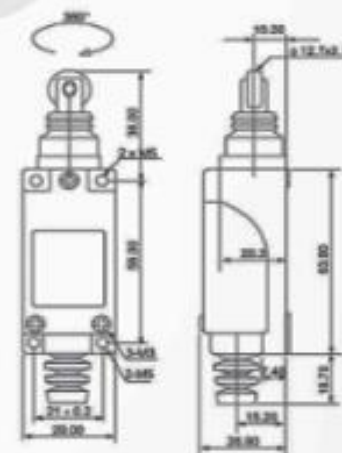


IS-8112



Operating Characteristics

OF (Max)	9.8N
RF (Min)	2.94N
PT(Max)	1.5mm
OT (Min)	4mm
MD (Max)	1.2mm
TT (Min)	5.5mm
OP	-

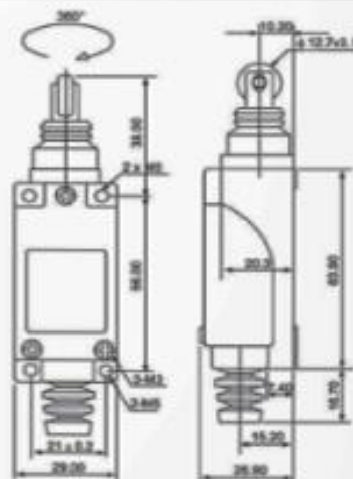


IS-8122



Operating Characteristics

OF (Max)	9.8N
RF (Min)	2.94N
PT(Max)	1.5mm
OT (Min)	4mm
MD (Max)	1.2mm
TT (Min)	5.5mm
OP	-



IS-8166

Operating Characteristics

OF (Max) 0.88N
PT(Max) 30mm



IS-8167

Operating Characteristics

OF (Max) 0.88N
PT(Max) 30mm



IS-8168

Operating Characteristics

OF (Max) 0.88N
PT(Max) 30mm



IS-8169

Operating Characteristics

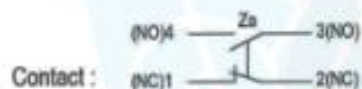
OF (Max) 0.88N
PT(Max) 30mm



Limit Switch Series

ISC Series

- Strong metal outer shell, swing arm max. $\pm 95^\circ$
- Stainless steel idler wheel, punch and spring
- Selective M18x1.5 cable gland



Characteristics

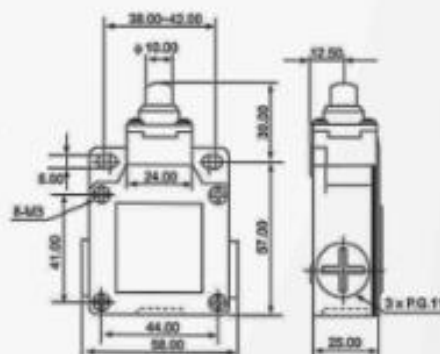
Double Break Mechanism	INO+INC Force Break snap action
Rated Voltage / Current	10(4)A, 125, 250VAC / 6(2)A, 380VAC For inductance Load, $\cos \phi = 0.4$
Contact Resistance	25m Ω max.(initial value)
Insulation Resistance	100m min. (at 500 VDC)
Dielectric Strength	1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60 Hz for 1minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60 Hz for 1minute between each terminal and ground
Operating Speed	5mm/s to 0.5m/s
Degree of Protection	IP66
Ambient Temperature Rised	Max 30°C over ambient temperature at rated voltage/current
Conformed Standards	Cenelec EN 50041, EN 50047, IEC 337-1, VDE 0660
Operating Temperature	-5°C → +65°C (with no icing)
Storage Temperature	-5°C → +65°C (with no icing)
Ambient Operating Humidity	95% RH Max.
Shock Resistance	Mechanical durable: 1000m/s ² min. Malfunction: 300m/s ² min.
Vibration Frequency	Malfunction: 10 to 55Hz, 1.5mm double amplitude
Terminal Screw Torsional Force	6-8 kgf-cm
Other Screw Torsional Force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgfcm
Bare Wire Diameter	ϕ 2 Max
Cable Diameter	ϕ 12 Max (IP 65 if use cable ϕ 8-9)

ISC-001



Operating Characteristics

OF (Max)	7.84N
RF (Min)	3.92N
PT(Max)	1.8mm
TP $\pm$ 10%	2.0mm
MD (Max)	1.2mm
OT (Min)	4.0mm
TT (Min)	5.8mm





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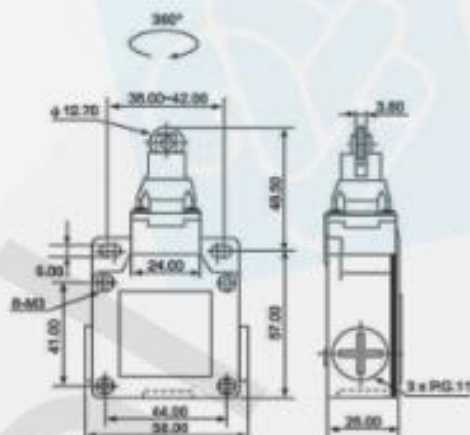
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ISC-003



Operating Characteristics

OF (Max)	7.84N
RF (Min)	3.92N
PT(Max)	1.8mm
TP±10%	2.0mm
MD (Max)	1.2mm
OT (Min)	4.0mm
TT (Min)	5.8mm

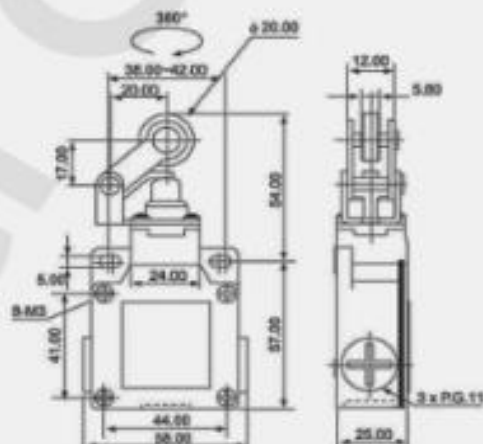


ISC-012



Operating Characteristics

OF (Max)	7.84N
RF (Min)	3.92N
PT(Max)	1.8mm
TP±10%	2.0mm
MD (Max)	1.2mm
OT (Min)	4.0mm
TT (Min)	5.8mm

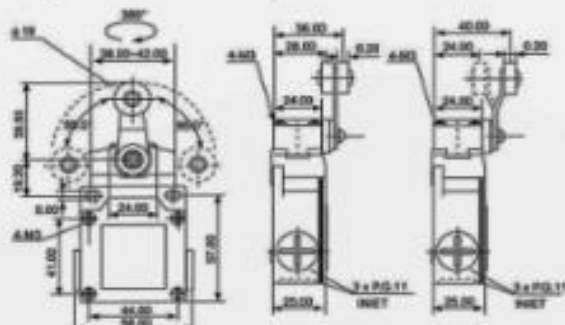


ISC-021



Operating Characteristics

OF (Max)	3.92N	MD (Max)	10°
RF (Min)	0.98N	OT (Min)	75°
PT(Max)	20°	TT (Min)	95°
TP±10%	22.5°	RI	22.5°

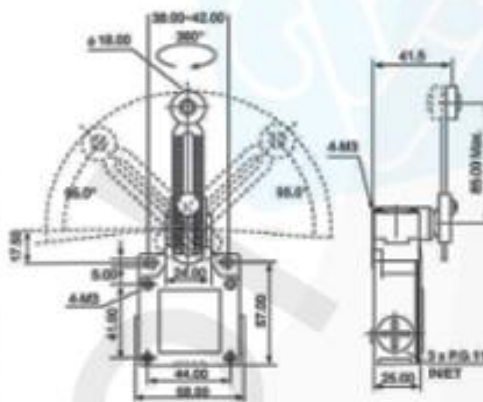


ISC-031



Operating Characteristics

OF (Max)	3.92N
RF (Min)	0.98N
PT(Max)	20°
TP+10%	22.5°
MD (Max)	10°
OT (Min)	75°
TT (Min)	95°
RI	22.5°

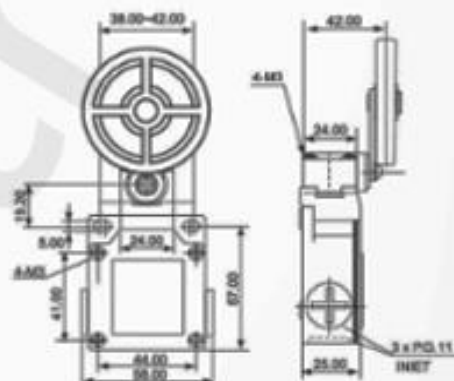


ISC-041



Operating Characteristics

OF (Max)	3.92N
RF (Min)	0.98N
PT(Max)	20°
TP+10%	22.5°
MD (Max)	10°
OT (Min)	75°
TT (Min)	95°
RI	22.5°

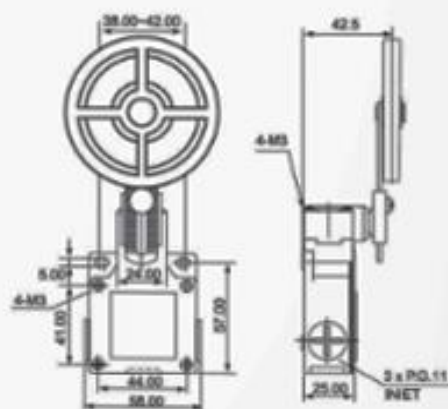


ISC-051



Operating Characteristics

OF (Max)	3.92N
RF (Min)	0.98N
PT(Max)	20°
TP+10%	22.5°
MD (Max)	10°
OT (Min)	75°
TT (Min)	95°
RI	22.5°

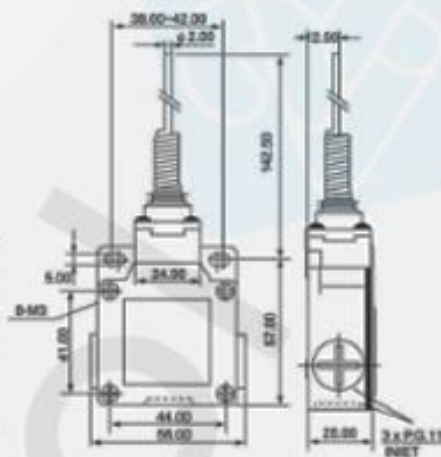




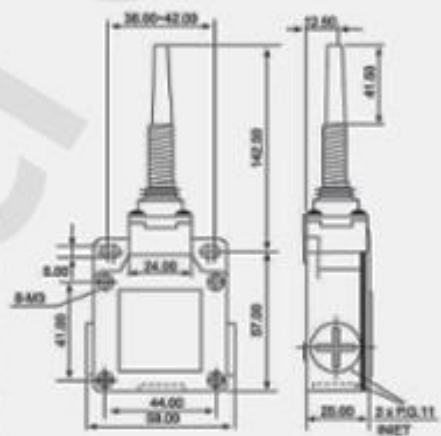
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IEC61058-1-1**ISWITCH | ele.****ISC-061****Operating Characteristics**

OF (Max)	1.47N
RF (Min)	0.49N
PT(Max)	30mm
TP $\pm 10\%$	22.5°
MD (Max)	14°
OT (Min)	20mm
TT (Min)	50mm

**ISC-071****Operating Characteristics**

OF (Max)	1.47N
RF (Min)	0.49N
PT(Max)	30mm
TP $\pm 10\%$	22.5°
MD (Max)	14°
OT (Min)	20mm
TT (Min)	50mm

**ISC-081****Operating Characteristics**

OF (Max)	1.47N
RF (Min)	0.49N
PT(Max)	30mm
TP $\pm 10\%$	22.5°
MD (Max)	14°
OT (Min)	20mm
TT (Min)	50mm

