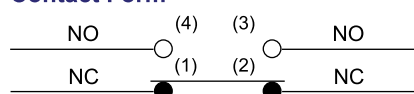


HL Limit Switches

Feature

- Metallic bottom shell
- Stainless steel roller, punch and spring
- Strong electric property 10A, 250V, for 500,000 times

Contact Form



Specification

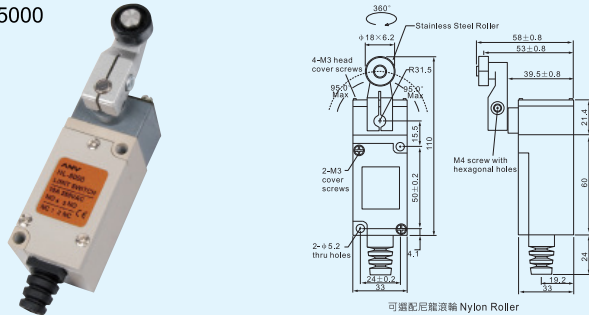
Model	HL	5000	5030	5050	5100	5200	5220	5300	5330	5381	5391
Operating Force	OF (Max.)	750g-cm	750g-cm	750g-cm	750g-cm	900g-cm	900g-cm	150g	150g	150g	550g-cm
Release Force	RF (Min.)	100g-cm	100g-cm	100g-cm	200g	200g	200g	30g	30g	30g	100g-cm
Pretravel	PT (Max.)	20°	20°	20°	1.8mm	1.8mm	1.8mm	30mm	30mm	30mm	20°
Tripping Position	TP±10%	22.5°	22.5°	22.5°	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°
Movement Differential	MD (Max.)	10°	10°	10°	1.2mm	1.2mm	1.2mm	14°	14°	14°	14°
Overtravel	OT (Min.)	75°	75°	75°	4.0mm	4.0mm	4.0mm	20mm	20mm	20mm	75°
Totaltravel	TT (Min.)	95°	95°	95°	5.8mm	5.8mm	5.8mm	50mm	50mm	50mm	95°

Characteristic

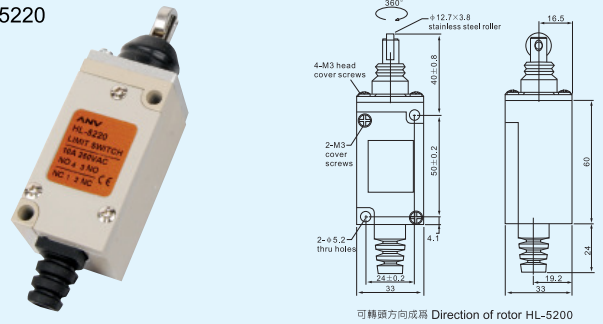
Double Break Mechanism	1NO+1NC Force Break snap action
Rated Voltage / Current	10(4)A, 125, 250VAC / 6(2)A, 380VAC For inductance Load, Cos ϕ =0.4
Contact Resistance	25m Ω max. (initial value)
Insulation Resistance	100m Ω min. (at 500VDC)
Dielectric Strength	1000VAC, 50/60 HZ for 1 minute between terminals 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
Electrical Life	500,000 at 10A 250VAC Resistive
Mechanical Life	10, 000, 000 operations min. (under rated conditions)
Operating Speed	5mm/s to 0.5m/s
Degree of Protection	IP65
Conformed Standards	Max 30°C over ambient temperature at rated voltage/current
Ambient Temperature	-5°C~+65°C (with no icing)
Storage Temperature	-5°C~+65°C (with no icing)
Ambient 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 kgf•cm
Bare Wire Diameter	ϕ 2 Max
Cable Diameter	ϕ 9 Max(IP 65 if use cable ϕ 8-9)

Appearance and Dimension

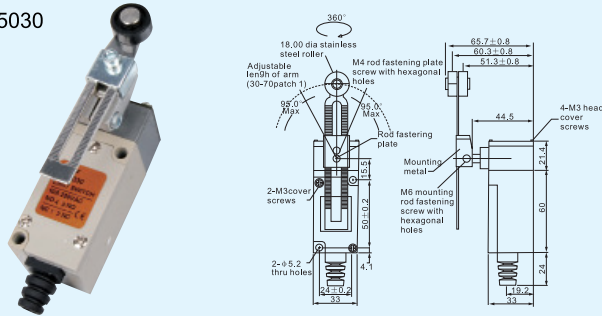
HL-5000



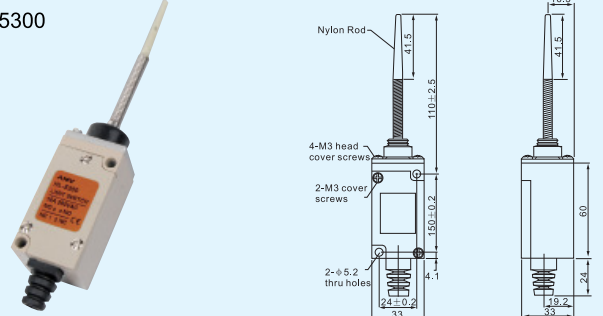
HL-5220



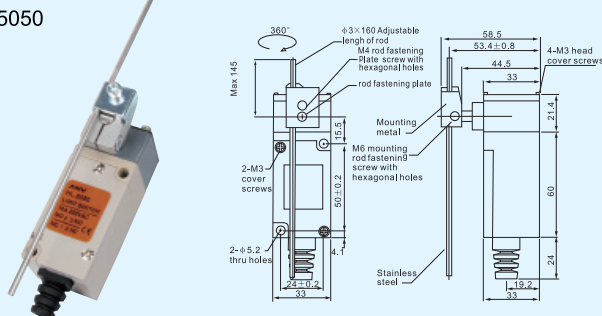
HL-5030



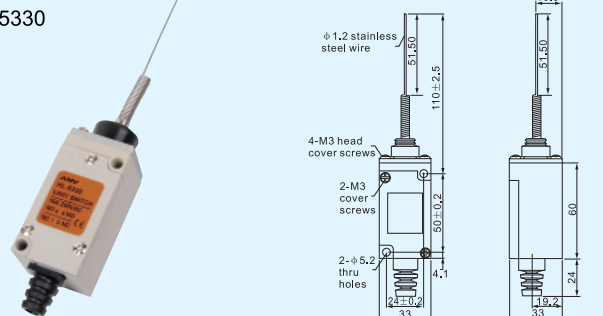
HL-5300



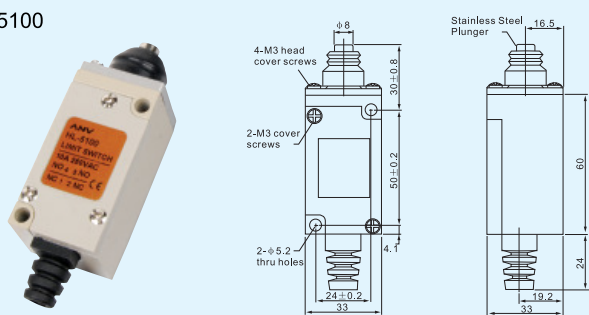
HL-5050



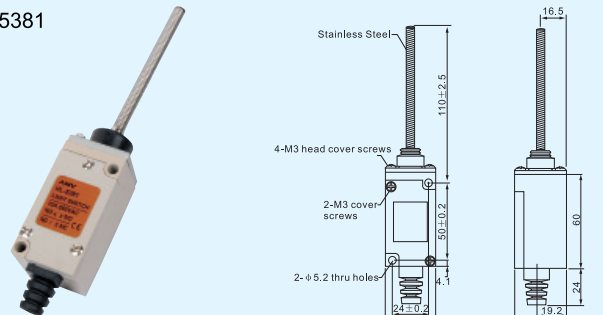
HL-5330



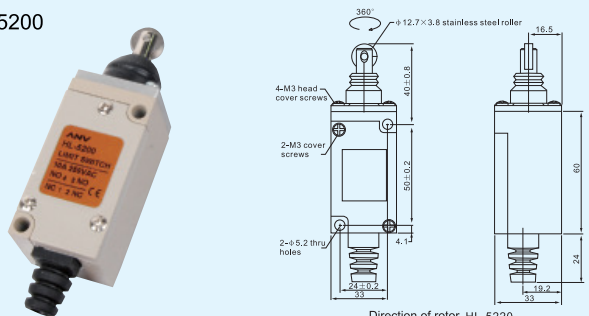
HL-5100



HL-5381



HL-5200



HL-5391

