

Limit Switches

FEATURES

- Wide choice of heads and actuators
- Variety of operating characteristics.
- Captive cover screws.
- Dustproof, Oil-Tight, Water-Resistant.
- Stainless steel essentials.
- Standard size & dimensions, 1/2" conduit entry.
- Temperature range +15°F to +175°F (-10°C to +80°C).

All oil tight limit switches are 2 circuit limit switches. 1NO and 1NC circuits. The 1 NO and 1 NC contact arrangement is double break isolated.

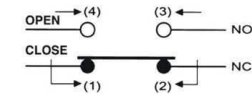
CHARACTERISTICS

Operating speed	1mm to 2m/sec.
Operating frequency	Mechanically:120 operations/min.
Contact resistance	Electrically :30 operations/min.
Insulation resistance	15m Ω max.(initial)
Dielectric strength	100M Ω min. (at 500 VDC) 1,000 VAC,50/60 Hz for 1 minute between non-continuous terminals 2,200 VAC,50/60 Hz for 1 minute between each terminal and non-current-carrying metal part and between each terminal and ground
Vibration	Malfunction durability : 10 to 55 Hz 1.5mm double amplitude
Shock	Mechanical durability : Approx. 1,000m/sec ² (approx. 100G's) Malfunction durability : Approx. 300m/sec ² (approx. 30G's)
Ambient operating temperature	Operating : -10°C to +80°C
Humidity	95% RH max.
Service life	Mechanically : 15,000,000 operations min. Electrically : 500,000 operations min.
Degree of protection	IEC 529 class IP67

RATING

10A	125 or 300 VAC (resistive)
0.8A	125 VDC (resistive)
0.4A	250 VDC
1/2HP	125 VAC
1HP	250 VAC

CIRCUITRY



OVERTRAVEL TYPE

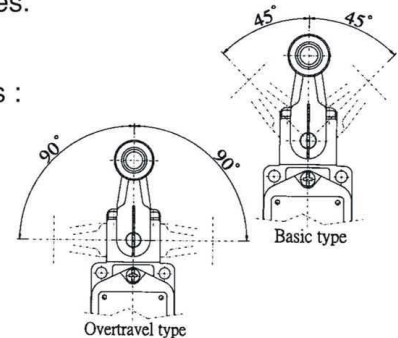
The Overtravel Type is a limit switch which is provided with a greater OT to facilitate dog setting. Since this type is identical to the Basic Type in dimension, both types are interchangeable. The Overtravel Type is classified into two versions-51 series and-52 series.

51 SERIES

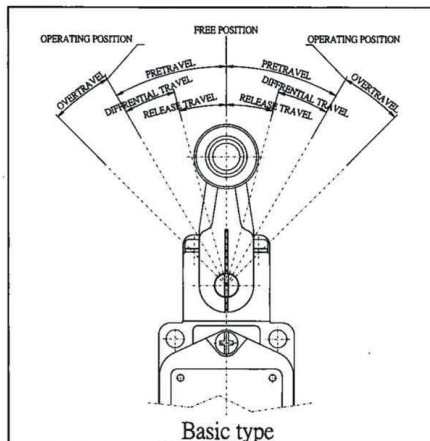
The head of-51 series switch can be installed in any of the four directions : 45o operation on either side-possible

52 SERIES

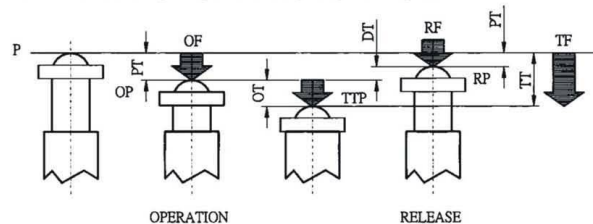
The head of-52 series switch can be installed only in two directions, forward and backward : 90o operation on either side-possible



ROTARY ACTUATION



IN-LINE PLUNGER ACTUATION

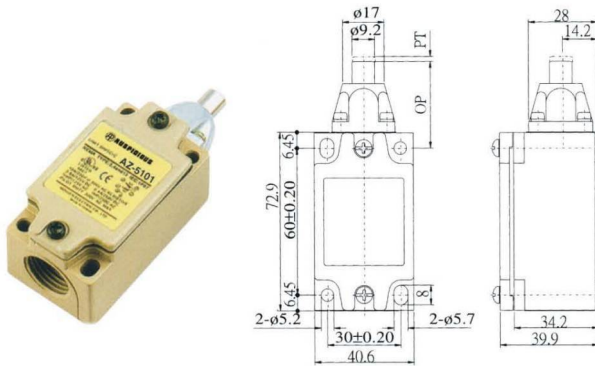


Characteristics : OF-Operating Force; PT-Pretravel; OT-Over Travel;DT-Differential Travel; RF-Release Force; OP-Operation Position;TF-Travel Force; RP-Release Position; TT-Total Travel

Limit switches

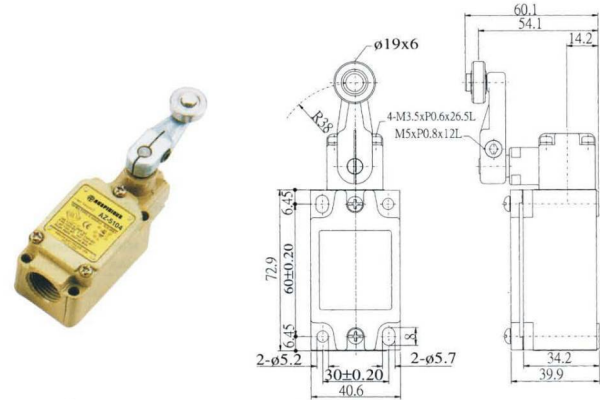


AZ-5101



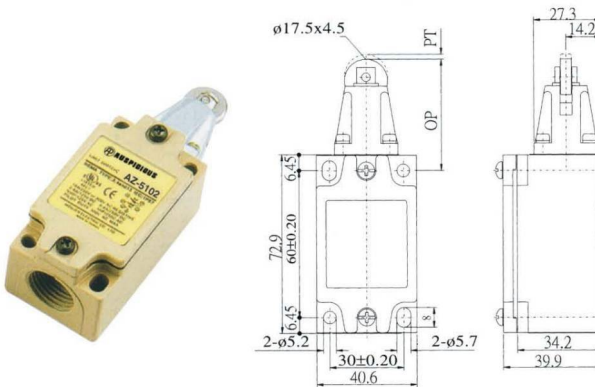
OF MAX	2800g-6 lbs.
RF MIN	900g-2 lbs. Max.
PT MAX	2mm-.070 in.
OT MIN	5.5mm-.200 in. Max.
DT MAX	1.0mm-.040 in.
OP	34 ±0.8

AZ-5104



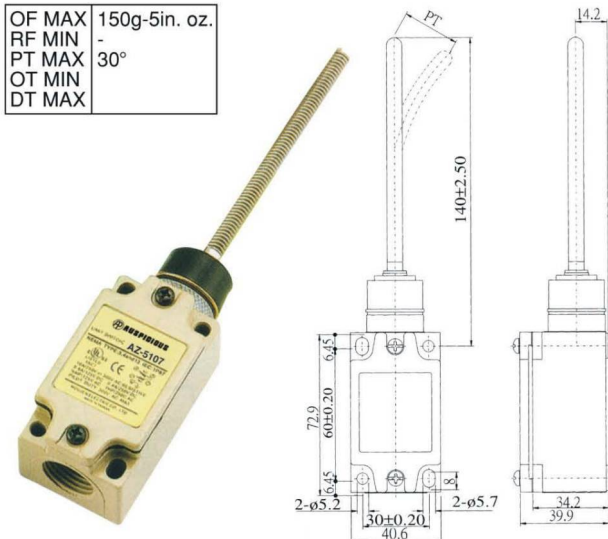
OF MAX	1400g-.3 in.lbs.
RF MIN	227g-1/2 lb.
PT MAX	15° to 20°
OT MIN	Min. 25°
DT MAX	Max. 12°
TF:	Max. 2720g-4 in. lbs.
TT:	Min. 43

AZ-5102



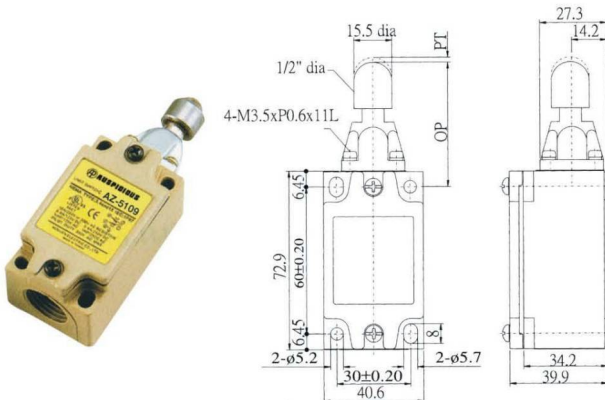
OF MAX	2800g-6 lbs.
RF MIN	900g-2 lbs. Max.
PT MAX	2mm-.070 in.
OT MIN	5.5mm-.200 in. Max.
DT MAX	1.0 mm-.040 in.
OP	44 ±0.8

AZ-5106



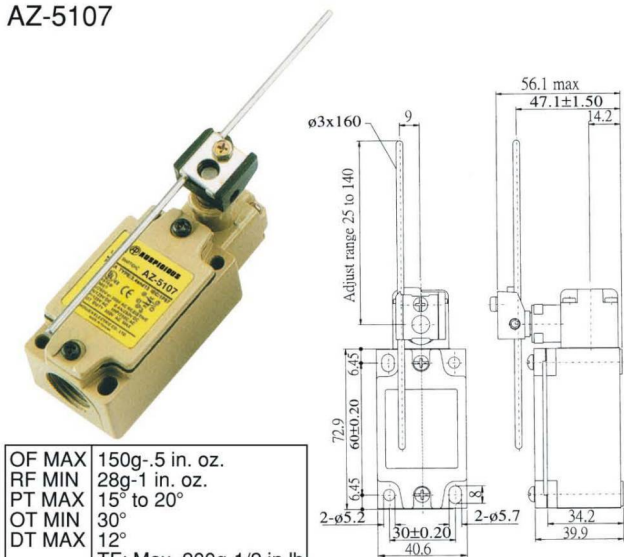
OF MAX	150g-5in. oz.
RF MIN	-
PT MAX	30°
OT MIN	
DT MAX	

AZ-5109



OF MAX	2800g-6 lbs.
RF MIN	900g-2 lbs. Max.
PT MAX	2mm-.070 in.
OT MIN	4mm-.157 in. Max.
DT MAX	1.0mm-.040 in.
OP	44.5 ±0.8

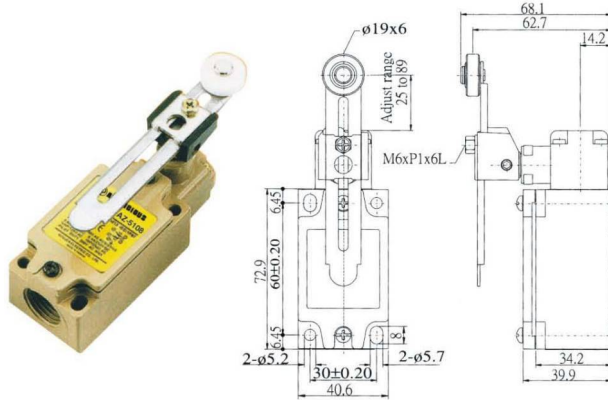
AZ-5107



OF MAX	150g-.5 in. oz.
RF MIN	28g-1 in. oz.
PT MAX	15° to 20°
OT MIN	30°
DT MAX	12°
TF:	Max. 200g-1/2 in lb
TT:	Min. 43°

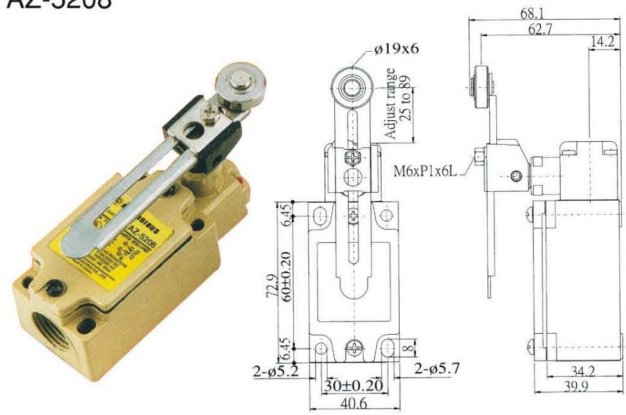
Limit switches

AZ-5108



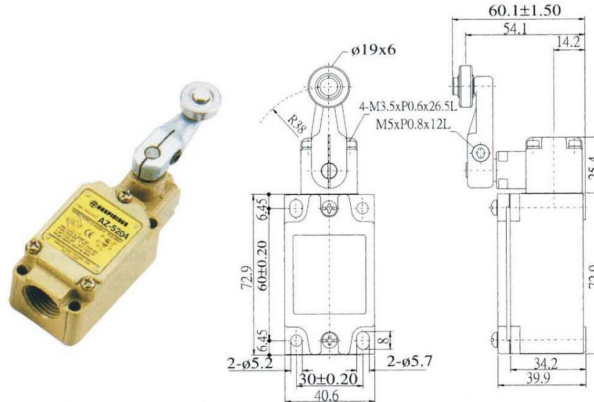
OF MAX	1400g-3 in. lbs.
RF MIN	227g-1/2 lb.
PT MAX	15° to 20°
OT MIN	25°
DT MAX	12°
TF:	Max. 2720g-4 in. lbs.
TT:	Min. 43°

AZ-5208



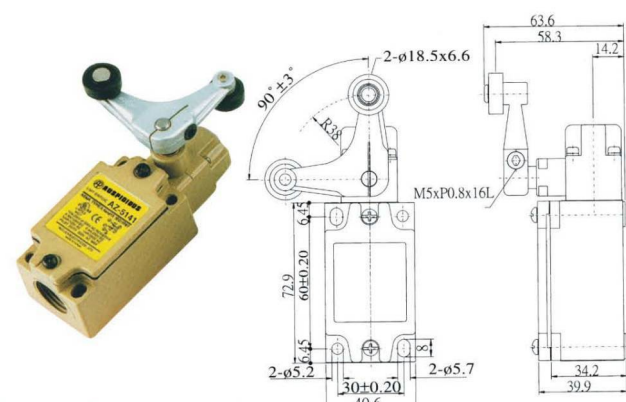
OF MAX	900g-3 in. lbs.
RF MIN	50g-1/2 lb.
PT MAX	25° to 30°
OT MIN	60°
DT MAX	16°
TF:	Max. 1820g-4 in. lbs.
TT:	90°+10°

AZ-5204



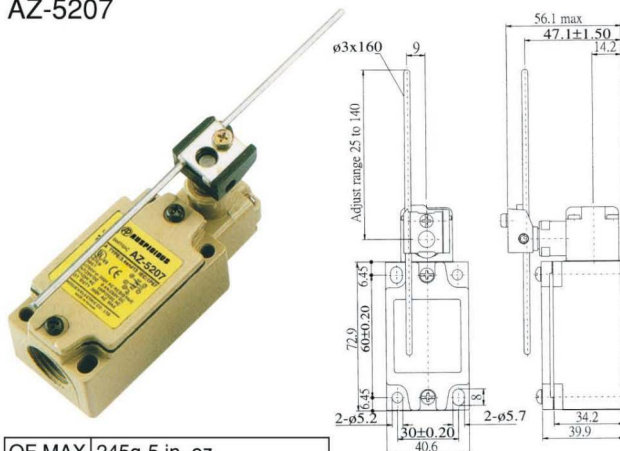
OF MAX	900g-2 in. lbs.
RF MIN	50g-2 in. oz.
PT MAX	25° to 30°
OT MIN	60°
DT MAX	16°
TT:	90°+10°

AZ-5141



OF MAX	1200g-2 in. Oz.
RF MIN	-
PT MAX	55°
OT MIN	35°
DT MAX	-

AZ-5207



OF MAX	245g-5 in. oz.
RF MIN	25g-1 in. oz.
PT MAX	25° to 30°
OT MIN	60°
DT MAX	16°
TF:	Max. 200g-1/2 in. lbs.
TT:	90°+10°

AZ-5142



AZ-5143



AZ-5144

