

Type V Micro Switches



Specification switches

Type designation: V15-187 series V15-250 series

TUV Rheinland Group

Standard:EN61058-1

Rating:10A, 250V~

Actuation:method: Push button switch,lever switch suitable for connection of prepared supply conductors.

Connection method:quick connect tap terminal 4.8mm x 0.8 for V15-187 series and 6.35mm x 0.8 for V15-250 series.

Wire cross-section area : 1.0~2.5mm²

Disconnection type : Micro disconnection

Pollution situation : 2

Mounting method : Built-in into an appliances

Rated impulse withstand voltage 2500V

Level of glow-wire test : 3

Service life : Mechanically : 1,000,000 operations min.

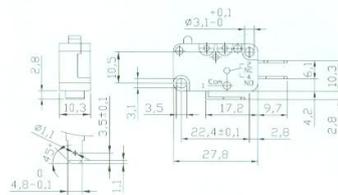
Electrically : 100,000 operations min. (full load)

CONTACT CONFIGURATION:

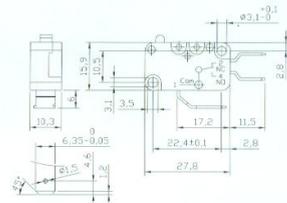


Terminal :

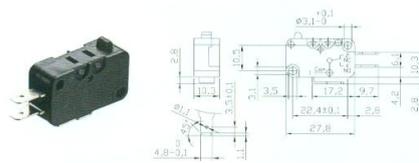
V15-187 Quick connect terminal



V15-250 Quick connect terminal



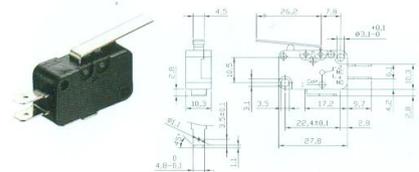
V15-187-00



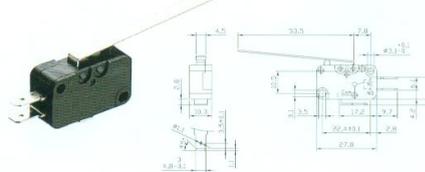
V15-187-01



V15-187-02



V15-187-03



Micro Switches

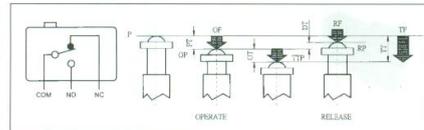
FEATURES

- Regular or sealed operating heads.
- Momentary contacts.
- Completely sealed constructure.
- Wide choice of heads and actuators.
- Plastic(Standard) or phenolic housing.
- Regular or light operating force.
- Temperature range +5° to +175° (-15°C to +80°C).

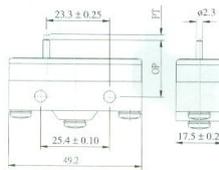
CHARACTERISTICS

Operating speed	0.01mm to 1m/sec
Operating frequency	Mechanically : 240 operations/min. Electrically : 20 operations/min.
Contact resistance	15mΩ max.(initial)
Insulation resistance	100M Ω min. (at 500 VDC)
Dielectric strength	1,000 VAC,50/60 Hz for 1minute between non-continuous terminals 2,000 VAC,50/60 Hz for 1 minute between current-carry part 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	General purpose type : -25°C to +80°C Sealed type : -15°C to +8°C
Humidity	General purpose type : 85% RH max. Sealed type : 95% RH
Service life	Mechanically : 20,000,000 operations min. Electrically : 500,000 operations min.

CIRCUITRY

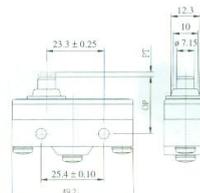


AM-1300



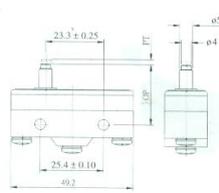
F MAX	250g-450g
RF MIN	114g
PT MAX	0.5mm
OT MIN	0.13mm
DT MAX	0.05mm
FP MAX	-
OP	15.9 ± 0.4

AM-1306



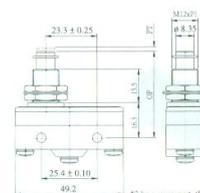
F MAX	250g-450g
RF MIN	114g
PT MAX	0.5mm
OT MIN	1.6mm
DT MAX	0.05mm
FP MAX	-
OP	21.5 ± 0.5

AM-1305



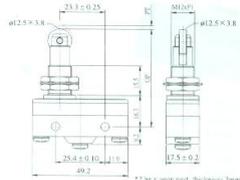
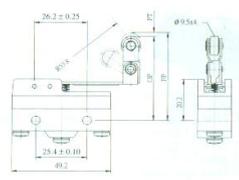
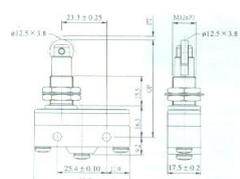
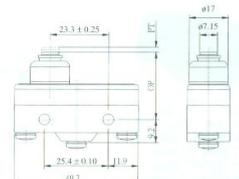
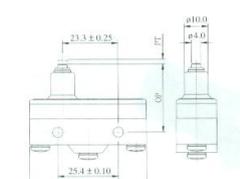
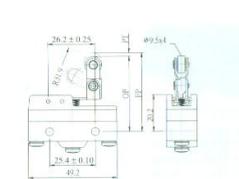
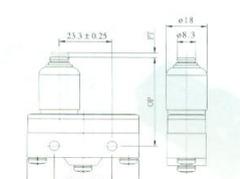
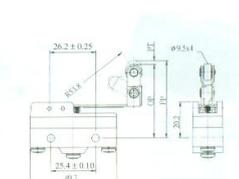
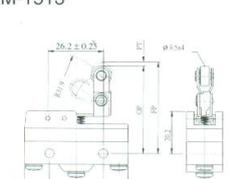
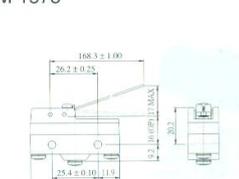
F MAX	250g-450g
RF MIN	114g
PT MAX	0.5mm
OT MIN	0.6mm
DT MAX	0.05mm
FP MAX	-
OP	28.2 ± 0.5

AM-1307

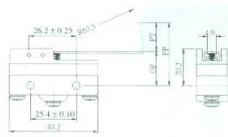


F MAX	250g-450g
RF MIN	114g
PT MAX	0.5mm
OT MIN	5.5mm
DT MAX	0.05mm
FP MAX	-
OP	38.1 ± 0.8

Micro Switches

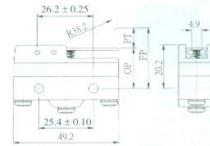
 <p>AM-1308</p> <table border="1"> <tr><td>F MAX</td><td>250g-450g</td></tr> <tr><td>RF MIN</td><td>114g</td></tr> <tr><td>PT MAX</td><td>0.5mm</td></tr> <tr><td>OT MIN</td><td>3.58mm</td></tr> <tr><td>DT MAX</td><td>0.05mm</td></tr> <tr><td>FP MAX</td><td>-</td></tr> <tr><td>OP</td><td>49.7±1.2</td></tr> </table>  <p>23.3±0.25 $\phi 12.5 \times 3.8$ M10ϕ $\phi 12.5 \times 3.8$ 17.5±0.2 25.4±0.10 49.2 *2 for upper part thickness: 3mm</p>	F MAX	250g-450g	RF MIN	114g	PT MAX	0.5mm	OT MIN	3.58mm	DT MAX	0.05mm	FP MAX	-	OP	49.7±1.2	 <p>AM-1514</p> <table border="1"> <tr><td>F MAX</td><td>150g</td></tr> <tr><td>RF MIN</td><td>25g</td></tr> <tr><td>PT MAX</td><td>6.4mm</td></tr> <tr><td>OT MIN</td><td>4.0mm</td></tr> <tr><td>DT MAX</td><td>1.6mm</td></tr> <tr><td>FP MAX</td><td>47.2mm</td></tr> <tr><td>OP</td><td>41.3±0.8</td></tr> </table>  <p>26.2±0.25 $\phi 9.5 \times 4$ 25.4±0.10 49.2</p>	F MAX	150g	RF MIN	25g	PT MAX	6.4mm	OT MIN	4.0mm	DT MAX	1.6mm	FP MAX	47.2mm	OP	41.3±0.8
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 <p>AM-1309</p> <table border="1"> <tr><td>F MAX</td><td>250g-450g</td></tr> <tr><td>RF MIN</td><td>114g</td></tr> <tr><td>PT MAX</td><td>0.5mm</td></tr> <tr><td>OT MIN</td><td>3.58mm</td></tr> <tr><td>DT MAX</td><td>0.05mm</td></tr> <tr><td>FP MAX</td><td>-</td></tr> <tr><td>OP</td><td>49.7±1.2</td></tr> </table>  <p>23.3±0.25 $\phi 12.5 \times 3.8$ M10ϕ $\phi 12.5 \times 3.8$ 17.5±0.2 25.4±0.10 49.2 *2 for upper part thickness: 3mm</p>	F MAX	250g-450g	RF MIN	114g	PT MAX	0.5mm	OT MIN	3.58mm	DT MAX	0.05mm	FP MAX	-	OP	49.7±1.2	 <p>AM-1515</p> <table border="1"> <tr><td>F MAX</td><td>540g</td></tr> <tr><td>RF MIN</td><td>114g</td></tr> <tr><td>PT MAX</td><td>2.3mm</td></tr> <tr><td>OT MIN</td><td>1.6mm</td></tr> <tr><td>DT MAX</td><td>0.06mm</td></tr> <tr><td>FP MAX</td><td>-</td></tr> <tr><td>OP</td><td>28.2±0.5</td></tr> </table>  <p>23.3±0.25 $\phi 17$ $\phi 7.15$ 25.4±0.10 11.9 49.2</p>	F MAX	540g	RF MIN	114g	PT MAX	2.3mm	OT MIN	1.6mm	DT MAX	0.06mm	FP MAX	-	OP	28.2±0.5
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 <p>AM-1315</p> <table border="1"> <tr><td>F MAX</td><td>540g</td></tr> <tr><td>RF MIN</td><td>114g</td></tr> <tr><td>PT MAX</td><td>1.9mm</td></tr> <tr><td>OT MIN</td><td>1.6mm</td></tr> <tr><td>DT MAX</td><td>0.06mm</td></tr> <tr><td>FP MAX</td><td>-</td></tr> <tr><td>OP</td><td>28.2±0.5</td></tr> </table>  <p>23.3±0.25 $\phi 10.0$ $\phi 4.0$ 25.4±0.10 49.2</p>	F MAX	540g	RF MIN	114g	PT MAX	1.9mm	OT MIN	1.6mm	DT MAX	0.06mm	FP MAX	-	OP	28.2±0.5	 <p>AM-1543</p> <table border="1"> <tr><td>F MAX</td><td>250g-450g</td></tr> <tr><td>RF MIN</td><td>114g</td></tr> <tr><td>PT MAX</td><td>0.5mm</td></tr> <tr><td>OT MIN</td><td>0.13mm</td></tr> <tr><td>DT MAX</td><td>0.05mm</td></tr> <tr><td>FP MAX</td><td>-</td></tr> <tr><td>OP</td><td>15.9±0.4</td></tr> </table>  <p>26.2±0.25 $\phi 9.5 \times 4$ 25.4±0.10 49.2</p>	F MAX	250g-450g	RF MIN	114g	PT MAX	0.5mm	OT MIN	0.13mm	DT MAX	0.05mm	FP MAX	-	OP	15.9±0.4
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FP MAX	-																												
OP	15.9±0.4																												
 <p>AM-1317</p> <table border="1"> <tr><td>F MAX</td><td>540g</td></tr> <tr><td>RF MIN</td><td>114g</td></tr> <tr><td>PT MAX</td><td>2.4mm</td></tr> <tr><td>OT MIN</td><td>3.5mm</td></tr> <tr><td>DT MAX</td><td>0.06mm</td></tr> <tr><td>FP MAX</td><td>-</td></tr> <tr><td>OP</td><td>38.1±1.2</td></tr> </table>  <p>23.3±0.25 $\phi 8.3$ 25.4±0.10 49.2</p>	F MAX	540g	RF MIN	114g	PT MAX	2.4mm	OT MIN	3.5mm	DT MAX	0.06mm	FP MAX	-	OP	38.1±1.2	 <p>AM-1544</p> <table border="1"> <tr><td>F MAX</td><td>170g</td></tr> <tr><td>RF MIN</td><td>42g</td></tr> <tr><td>PT MAX</td><td>2.7mm</td></tr> <tr><td>OT MIN</td><td>2.4mm</td></tr> <tr><td>DT MAX</td><td>0.51mm</td></tr> <tr><td>FP MAX</td><td>43.6mm</td></tr> <tr><td>OP</td><td>41.3±0.8</td></tr> </table>  <p>26.2±0.25 $\phi 9.5 \times 4$ 25.4±0.10 49.2</p>	F MAX	170g	RF MIN	42g	PT MAX	2.7mm	OT MIN	2.4mm	DT MAX	0.51mm	FP MAX	43.6mm	OP	41.3±0.8
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DT MAX	0.51mm																												
FP MAX	43.6mm																												
OP	41.3±0.8																												
 <p>AM-1513</p> <table border="1"> <tr><td>F MAX</td><td>180g</td></tr> <tr><td>RF MIN</td><td>50g</td></tr> <tr><td>PT MAX</td><td>2.7mm</td></tr> <tr><td>OT MIN</td><td>2.4mm</td></tr> <tr><td>DT MAX</td><td>0.8mm</td></tr> <tr><td>FP MAX</td><td>43.6mm</td></tr> <tr><td>OP</td><td>41.3±1.8</td></tr> </table>  <p>26.2±0.25 $\phi 5.4$ 25.4±0.10 49.2</p>	F MAX	180g	RF MIN	50g	PT MAX	2.7mm	OT MIN	2.4mm	DT MAX	0.8mm	FP MAX	43.6mm	OP	41.3±1.8	 <p>AM-1578</p> <table border="1"> <tr><td>F MAX</td><td>110g</td></tr> <tr><td>RF MIN</td><td>25g</td></tr> <tr><td>PT MAX</td><td>6.4mm</td></tr> <tr><td>OT MIN</td><td>4.0mm</td></tr> <tr><td>DT MAX</td><td>1.6mm</td></tr> <tr><td>FP MAX</td><td>47.2mm</td></tr> <tr><td>OP</td><td>41.3±0.8</td></tr> </table>  <p>168.3±1.00 26.2±0.25 25.4±0.10 11.9 49.2</p>	F MAX	110g	RF MIN	25g	PT MAX	6.4mm	OT MIN	4.0mm	DT MAX	1.6mm	FP MAX	47.2mm	OP	41.3±0.8
F MAX	180g																												
RF MIN	50g																												
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AM-1701



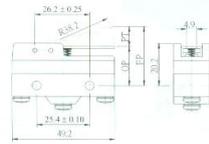
F MAX	70g
RF MIN	14g
PT MAX	10mm
OT MIN	5.5mm
DT MAX	1.27mm
FP MAX	28.2mm
OP	19 ± 0.8

AM-1712



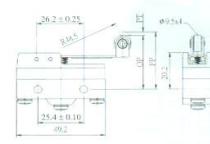
F MAX	150g
RF MIN	25g
PT MAX	6.4mm
OT MIN	4.0mm
DT MAX	1.6mm
FP MAX	47.2mm
OP	41.3 ± 0.8

AM-1702



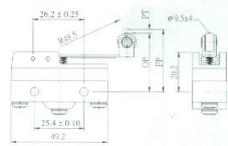
F MAX	120g
RF MIN	20g
PT MAX	7.9mm
OT MIN	3.0mm
DT MAX	1.0mm
FP MAX	26.2mm
OP	19 ± 0.8

AM-1713



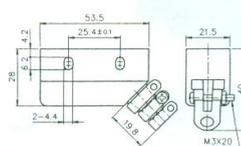
F MAX	540g
RF MIN	114g
PT MAX	2.3mm
OT MIN	1.6mm
DT MAX	0.06mm
FP MAX	OP
OP	28.2 ± 0.5

AM-1703

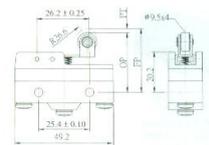


F MAX	100g
RF MIN	21g
PT MAX	7.1mm
OT MIN	4.0mm
DT MAX	1.6mm
FP MAX	36.5mm
OP	30.2 ± 0.8

CB-Y

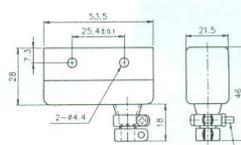


AM-1704

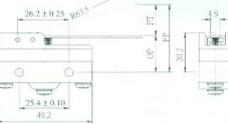


F MAX	160g
RF MIN	42g
PT MAX	3.5mm
OT MIN	2.4mm
DT MAX	0.5mm
FP MAX	34.5mm
OP	30.2 ± 0.8

CB-Z



AM-1711



F MAX	100g
RF MIN	14g
PT MAX	10mm
OT MIN	5.6mm
DT MAX	2.0mm
FP MAX	28.2mm
OP	19 ± 0.8

Limit Switches

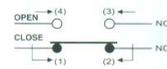
FEATURES

- 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).

RATING

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

CIRCUITRY



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	15mΩ 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

OVERTRAVEL TYPE

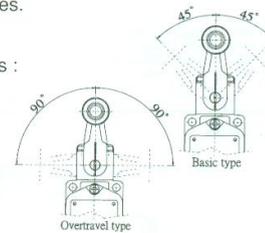
The Overtravel Type is a limit switch which is provided with a greater OT to facilitate dog setting. Since this type is identical to the Basic Type in dimension, both types are interchangeable. The Overtravel Type is classified into two versions-51 series and-52 series.

51 SERIES

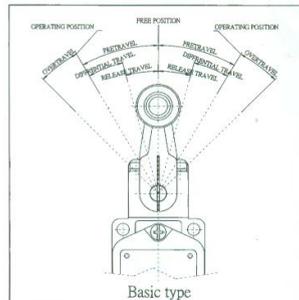
The head of-51 series switch can be installed in any of the four directions : 45o operation on either side-possible

52 SERIES

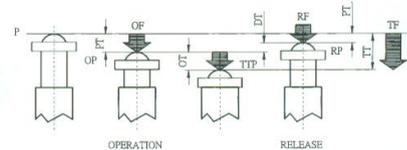
The head of-52 series switch can be installed only in two directions, forward and backward : 90o operation on either side-possible



ROTARY ACTUATION



IN-LINE PLUNGER ACTUATION

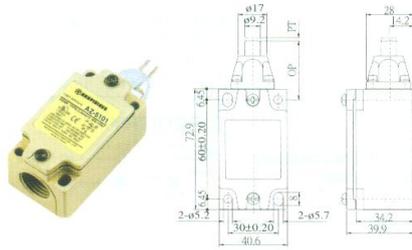


Characteristics : OF-Operating Force; PT-Pretravel; OT-Over Travel;DT-Differential Travel; RF-Release Force; OP-Operation Position;TF-Travel Force; RP-Release Position; TT-Total Travel

Limit switches

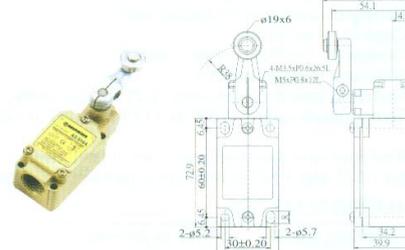


AZ-5101



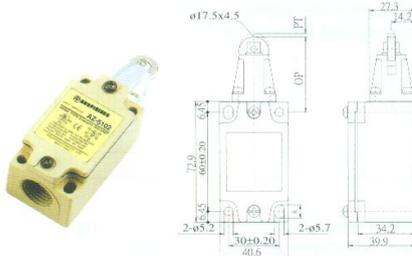
OF MAX	2800g-6 lbs.
RF MIN	900g-2 lbs. Max.
PT MAX	2mm-.070 in.
OT MIN	5.5mm-.200 in. Max.
DT MAX	1.0mm-.040 in.
OP	34±0.8

AZ-5104



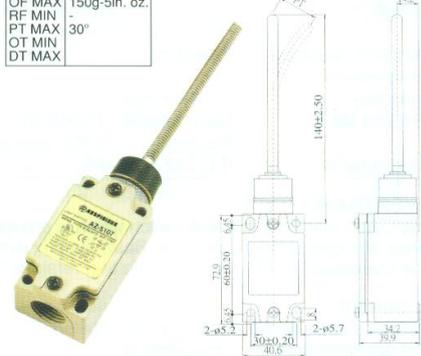
OF MAX	1400g-.3 in.lbs.
RF MIN	227g-1/2 lb.
PT MAX	15° to 20°
OT MIN	Min. 25°
DT MAX	Max. 12°
TF	Max. 2720g-4 in. lbs.
TT	Min. 43

AZ-5102



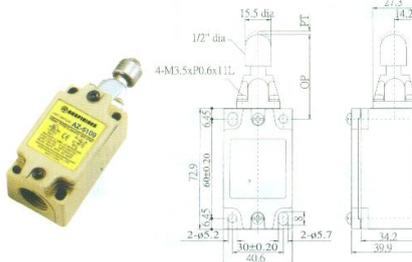
OF MAX	2800g-6 lbs.
RF MIN	900g-2 lbs. Max.
PT MAX	2mm-.070 in.
OT MIN	5.5mm-.200 in. Max.
DT MAX	1.0 mm-.040 in.
OP	44±0.8

AZ-5106



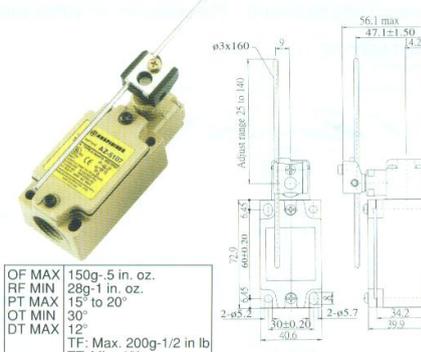
OF MAX	150g-5in. oz.
RF MIN	30°
PT MAX	30°
OT MIN	30°
DT MAX	30°

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

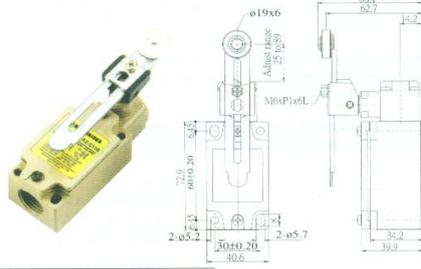


OF MAX	150g-.5 in. oz.
RF MIN	28g-1 in. oz.
PT MAX	15° to 20°
OT MIN	30°
DT MAX	12°
TF	Max. 200g-1/2 in lb
TT	Min. 43°

Limit switches

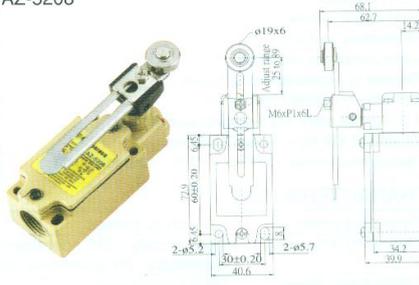


AZ-5108



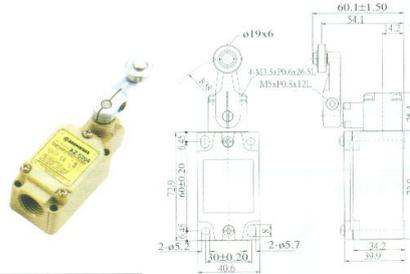
OF MAX	1400g-3 in. lbs.
RF MIN	227g-1/2 lb.
PT MAX	15° to 20°
OT MIN	25°
DT MAX	12°
TF:	Max. 2720g-4 in. lbs.
TT:	Min. 43°

AZ-5208



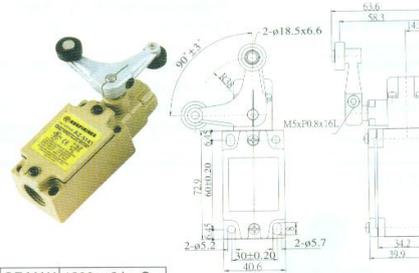
OF MAX	900g-3 in. lbs.
RF MIN	50g-1/2 lb.
PT MAX	25° to 30°
OT MIN	60°
DT MAX	16°
TF:	Max. 1820g-4 in. lbs.
TT:	90°+10°

AZ-5204



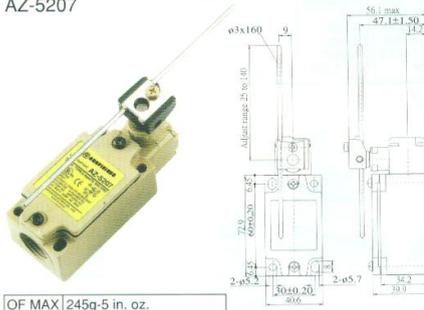
OF MAX	900g-2 in. lbs.
RF MIN	50g-2 in. oz.
PT MAX	25° to 30°
OT MIN	60°
DT MAX	16°
TT:	90°+10°

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



Enclosed Limit Switches

FEATURES

- Side mount switches.
- Momentary contacts.
- Level or plunger operation.
- Regular or sealed operating heads.
- Completely sealed construction.
- 1/2" conduit entry, captive cover screws.
- Dustproof, Oil-Tight, Water-Resistant.
- Temperature range +15°F to +175°F (-10°C to +80°C).

AZ6 series side mount switches are offered with or without actuator seal boots. Both have a combination insulator seal cemented inside the bottom enclosure. Lead washers are used to seal the mounting holes on side mount switches.

The elastomer boot on sealed actuator versions and cover seal on all switches protect the actuating mechanism and the internal basic switch from contaminations.

All side mount switches are installed with M4 screws. Removal of the bottom enclosure exposes the terminals for easy wiring.

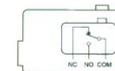
CHARACTERISTICS

Operating speed	0.01mm to 1m/sec
Operating frequency	Mechanically : 240 operations/min. Electrically : 20 operations/min.
Contact resistance	15mΩ max.(initial)
Insulation resistance	100M Ω min. (at 500 VDC)
Dielectric strength	1,000 VAC,50/60 Hz for 1minute between non-continuous terminals 2,000 VAC,50/60 Hz for 1 minute between current-carrying part 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	General purpose type : 85% RH max. Sealed type : 95% RH
Service life	Mechanically : 20,000,000 operations min. Electrically : 500,000operations min.

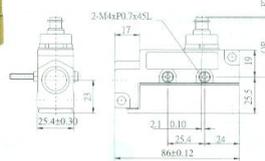
RATING

15A 125, 250VAC
1/8HP 125 VAC
1/4HP 250VAC
1/2A 125VDC
1/4A 250VDC

CIRCUITRY

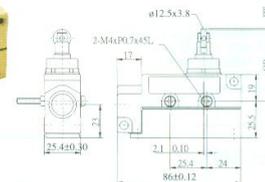


AZ-6101



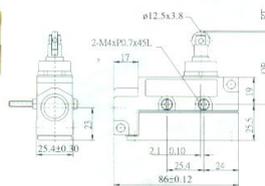
OF MAX	250g-450g
RF MIN	114g
PT MAX	0.8mm
OT MIN	5.5mm
DT MAX	0.05mm
OP	40.2±0.8

AZ-6102R



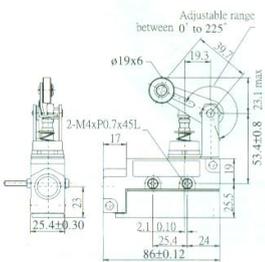
OF MAX	250g-450g
RF MIN	114g
PT MAX	0.8mm
OT MIN	3.6mm
DT MAX	0.05mm
OP	50.7±0.8

AZ-6102



OF MAX	250g-450g
RF MIN	114g
PT MAX	0.8mm
OT MIN	3.6mm
DT MAX	0.05mm
OP	50.7±0.8

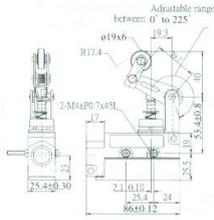
AZ-6104



OF MAX	570g
RF MIN	170g
PT MAX	4mm
OT MIN	6mm
DT MAX	0.4mm
OP	

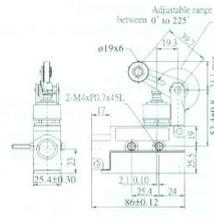
Enclosed Limit Switches

AZ-6107



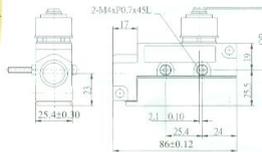
OF MAX	600g
RF MIN	170g
PT MAX	5mm
OT MIN	5.5mm
DT MAX	0.72mm
OP	

AZ-6114



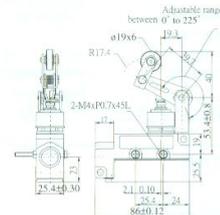
OF MAX	640g
RF MIN	230g
PT MAX	5mm
OT MIN	6mm
DT MAX	0.4mm
OP	

AZ-6111



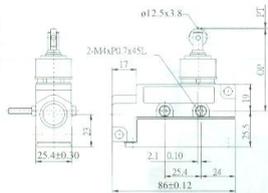
OF MAX	800g
RF MIN	240g
PT MAX	2mm
OT MIN	5mm
DT MAX	0.1mm
OP	50.5±0.8

AZ-6117



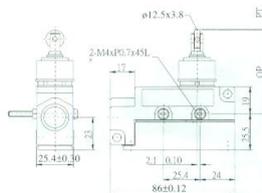
OF MAX	640g
RF MIN	230g
PT MAX	5mm
OT MIN	6mm
DT MAX	0.72mm
OP	

AZ-6112



OF MAX	500g
RF MIN	100g
PT MAX	2mm
OT MIN	3.5mm
DT MAX	0.12mm
OP	49.7±0.8

AZ-6112R



OF MAX	500g
RF MIN	100g
PT MAX	2mm
OT MIN	3.5mm
DT MAX	0.12mm
OP	49.7±0.8

Mini Enclosed Limit Switches

FEATURES

- Side mount switches.
- Momentary contacts.
- Wide choice of heads and actuators.
- Sealed actuators.
- Completely sealed structure.
- Plastic sealed construction.
- Temperature range +5°F to +175°F (-15°C to +80°C).

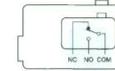
CHARACTERISTICS

Operating speed	0.01mm to 50 cm/sec. (at pin pluger)
Operating frequency	120 operations/min.
Contact resistance	25mΩ max. (initial)
Insulation resistance	100M Ω min.at 500VDC
Dielectric strength	1,000 VAC, 50/60 Hz for 1 minute between non-continuous terminals 2,000 VAC , 50/60 Hz for 1minute between current-carrying and non-current carrying parts and between each terminal and ground.
Vibration Shock	Malfunction durability : 10 to 55 Hz 1.5mm double amplitude. Mechanical durability : 1,000m/sec ² approx. 100G's Malfunction durability : 300m/sec ² (approx. 30G's)
Ambient operating temperature	Operating : -10°C to +80°C
Humidity	95% RH max. (at +25°C to +35°C)
Service life	Mechanically : 10,000,000 operations min. (at rated OT value) Electrically : 500,000 operations min.
Degree of protection	IEC :IP65

RATING

10A	250 VAC
0.5A	125 VDC

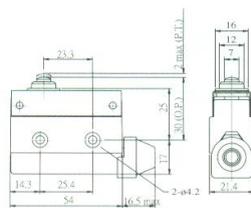
CIRCUITRY



AZ-7100



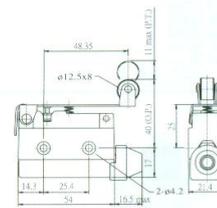
OF MAX	600g
RF MIN	100g
PT MAX	2.0mm
OT MIN	0.8mm
DT MAX	0.8mm
OP	30±1.5



AZ-7121



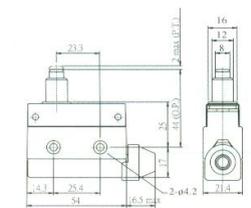
OF MAX	180g
RF MIN	50g
PT MAX	11.0mm
OT MIN	3.0mm
DT MAX	2.4mm
OP	40±1.9



AZ-7110



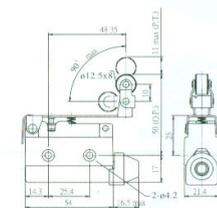
OF MAX	600g
RF MIN	100g
PT MAX	2.0mm
OT MIN	5.0mm
DT MAX	0.8mm
OP	44±1.5



AZ-7124



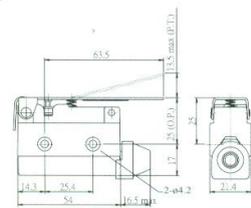
OF MAX	200g
RF MIN	60g
PT MAX	11.0mm
OT MIN	3.0mm
DT MAX	2.4mm
OP	50±1.9



AZ-7120



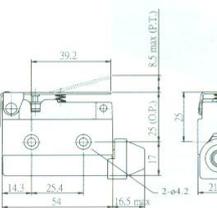
OF MAX	150g
RF MIN	40g
PT MAX	13.5mm
OT MIN	4.0mm
DT MAX	3.2mm
OP	25±2.0



AZ-7140

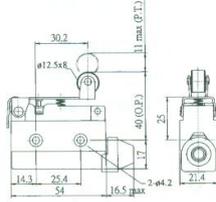


OF MAX	220g
RF MIN	60g
PT MAX	8.5mm
OT MIN	2.5mm
DT MAX	2.0mm
OP	25±1.3



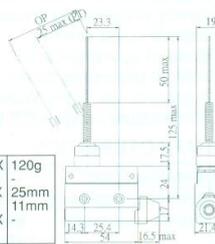
Mini Enclosed Limit Switches

AZ-7141



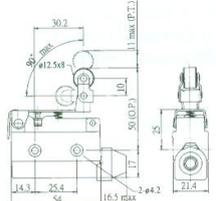
OF MAX	240g
RF MIN	80g
PT MAX	6.5mm
OT MIN	2.0mm
DT MAX	1.5mm
OP	40±1.6

AZ-7169



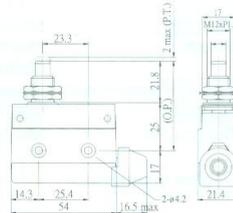
OF MAX	120g
RF MIN	-
PT MAX	25mm
OT MIN	11mm
DT MAX	-
OP	-

AZ-7144



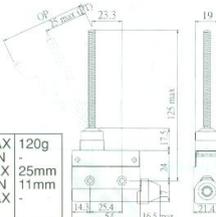
OF MAX	280g
RF MIN	100g
PT MAX	6.5mm
OT MIN	2.0mm
DT MAX	1.5mm
OP	50±1.6

AZ-7310



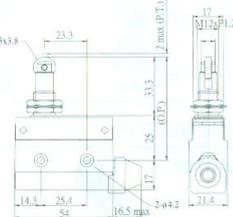
OF MAX	600g
RF MIN	100g
PT MAX	2.0mm
OT MIN	6.0mm
DT MAX	0.8mm
OP	46.8±1.5

AZ-7161



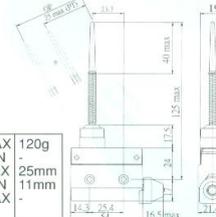
OF MAX	120g
RF MIN	-
PT MAX	25mm
OT MIN	11mm
DT MAX	-
OP	-

AZ-7311



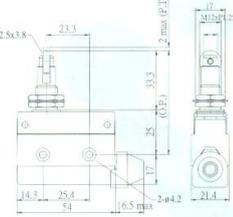
OF MAX	600g
RF MIN	100g
PT MAX	2.0mm
OT MIN	6.0mm
DT MAX	0.8mm
OP	58.3±1.5

AZ-7166



OF MAX	120g
RF MIN	-
PT MAX	25mm
OT MIN	11mm
DT MAX	-
OP	-

AZ-7312



OF MAX	600g
RF MIN	100g
PT MAX	2.0mm
OT MIN	6.0mm
DT MAX	0.8mm
OP	58.3±1.5

Mini Limit Switches

FEATURES

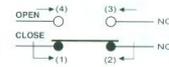
- Wide choice of heads and actuators
- Variety of operating characteristics.
- Captive cover screws.
- Mode of operation is field adjustable.
- Internal grounding screw.
- Dustproof, Oil-Tight, Water-Resistant.
- Temperature range +5°F to +160°F



RATING

5A 250 VAC (resistive)
0.4A 125 VDC (resistive)

CIRCUITRY



AZ-8000

CHARACTERISTICS

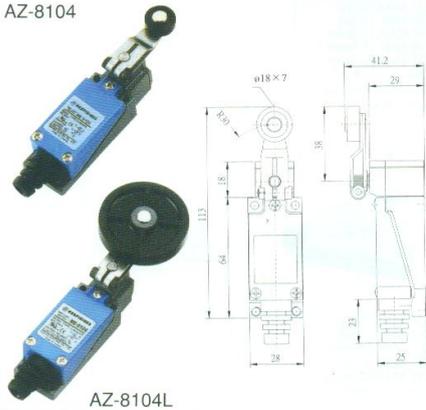
Operating speed	0.5mm to 50m/sec.
Operating frequency	Mechanically:120 operations/min.
Contact resistance	Electrically :30 operations/min. 15mΩ max.(initial)
Insulation resistance	100M Ω min. (at 500 VDC)
Dielectric strength	1,000 VAC,50/60 Hz for 1 minute between non-continuous terminals 2,000 VAC,50/60 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 temperature	Operating : -15°C to +70°C
Humidity	95% RH max.
Service life	Mechanically : 10,000,000 operations min. Electrically : 300,000 operations min.
Degree of protection	IEC 529 class IP65

OPERATING CHARACTERISTICS

Operating characteristics \ Type	AZ-8104	AZ-8108	AZ-8107	AZ-8111	AZ-8112 AZ-8122	AZ-8166 , AZ-8168 AZ-8167 , AZ-8169
OF Max.	600g	600g	750g	900g	900g	150g
RF Min.	50g	50g	50g	150g	150g	-
PT Max.	20°	20°	20°	1.5°	1.5°	30°
OT Min.	75°	75°	75°	4°	4°	20°
DT Max.	10°	10°	10°	1°	1°	-
TT Min.	95°	95°	95°	5°	5°	-

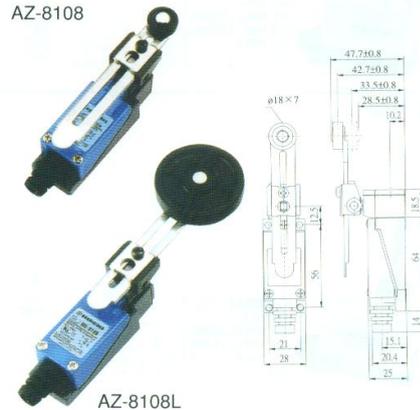
DIMENSIONS

AZ-8104



AZ-8104L

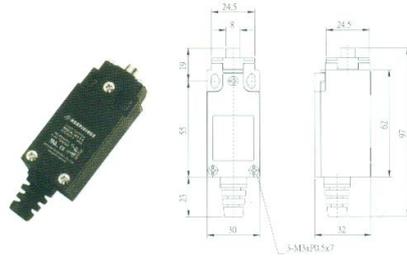
AZ-8108



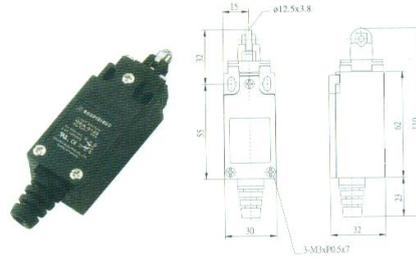
AZ-8108L

Mini light Limit switches

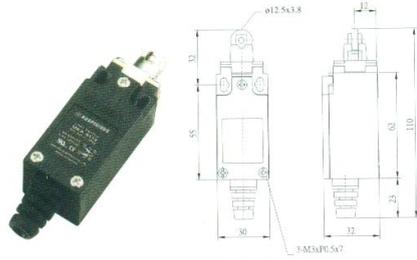
AZ-9111



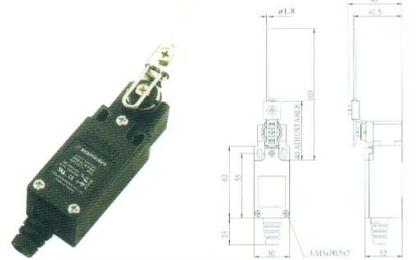
AZ-9122



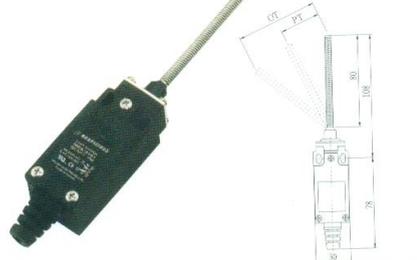
AZ-9112



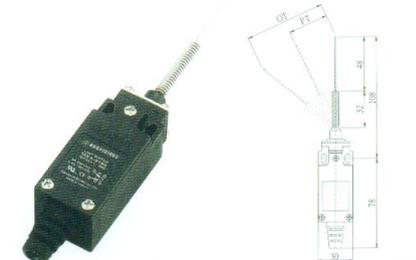
AZ-9107



AZ-9161



AZ-9169



AZ-9166

