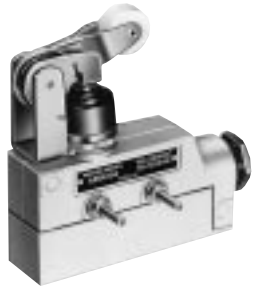
NAiS

NEW SPLIT TYPE LIMIT SWITCHES

AZ66 Limit Switches

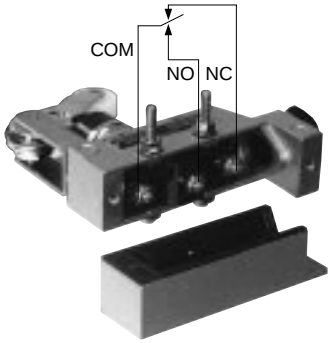
High current capacity handles large loads.



Roller lever type

FEATURES

1.Simple to wire and maintain
The central section can be split. Just remove the cover and the terminal screws are accessible for quick, easy wiring.
2.Easy to install
The conduit port can be handled with a hex. socket wrench. Just tighten up and the unit is already in place.
3.Mountable sideways and upright
4.Diagonal mounting also possible for tougher use
5 mm .197inch screws can be used for diagonal setup.
5.Upgraded capacity
The rated capacity is improved in order to switch a heavier load with enough safety margin.



PRODUCT TYPE

Actuator	Mounting	Part No.
Push plunger	Side	AZ66101
	Bottom	AZ66201
	Diagonal	AZ66001
Roller lever	Side	AZ66104
	Bottom	AZ66204
	Diagonal	AZ66004

Note) UL recognized, CSA certified type available with grounding terminal. When ordering, add suffix 9 to the part No..

STANDARDS

Standards	Applicable product	Part No.	Notes
UL recognized product	File No. : E99838 Ratings : 15A, 1/2HP, 125V AC 10A, 1/2HP, 250V AC	Add “9” to the end of the standard part No.	These limit switches are “NAiS” brand, and are fitted with an earth terminal. This is true for all products.
CSA certified product	File No. : LR55880 Ratings : 15A, 1/2HP, 125V AC 10A, 1/2HP, 250V AC		

SPECIFICATIONS

1. Contact Rating

Types load / Voltage	Resistive load (cos $\phi \fallingdotseq 1$)	Inductive load (cos $\phi \fallingdotseq 0.4$)	Motor or lamp load	
			N.C. contact	N.O. contact
125V AC	15A	10A	4A	2A
250V AC	15A	10A	3A	1.5A
500V AC	3A	2A	1.5A	0.75A
125V DC	0.4A	0.05A	–	–

2. Contact Characteristics

Contact arrangement		1 Form C
Initial insulation resistance (At 500V DC)		Min. 100MΩ
Initial breakdown voltage		1,000Vrms for 1 min Between terminals 2,000Vrms for 1 min Between dead metal parts and each terminal 2,000Vrms for 1 min Between ground and each termina
Contact resistance		Max. 15mΩ (By voltage drop 6 to 8V DC 1A)
Shock resistance		Min. 200m/s^2 (approx. 20G) (In the free position, in the full operating position)
Vibration resistance		10 to 55Hz, double amplitude of 1.5mm (In the free position, in the full operating position)
Expected life (Min. operations)	Mechanical	1.5×10^6 (at 60 cpm)
	Electrical	1.5×10^5 (at 20 cpm)
Ambient temperature		–5 to +80°C +23 to +176°F
Ambient humidity		Max. 95% R.H.
Max. operating speed		120 cpm

3. Operating characteristics

Types of load / Actuator	O.F. (N {gf}) max.	R.F. (N {gf})	Pretravel (P.T.), max. mm inch	Movement Differential (M.D.), max. mm inch	Overtravel (O.T.), min. mm inch	Totaltravel (T.T.), min. mm inch	Repeat accuracy of operating position mm
Push plunger	7.84 {800}	2.16 {220}	2.2 .087	0.15 .006	5.0 .197	–	0.1 .004
Roller lever	6.86 {700}	1.67 {170}	4.5 .177	0.4 .016	5.5 .217	8.0 .315	0.3 .012

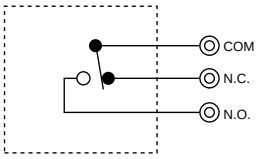
Notes) 1. The repeat accuracy is the difference between the maximum and minimum of 20 operating positions under no load.
2. For the operating characteristics, refer to the TECHNICAL INFORMATION.

4. Protective characteristics

Protective construction / IEC	New Slitted type limit switches
IP60	○
IP64	○
IP66	○

Note) The switches are not water-tight and oil-resistant.

WIRING DIAGRAM



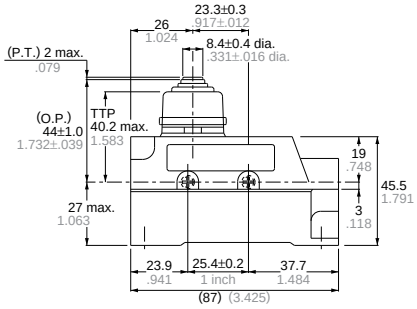
DIMENSIONS

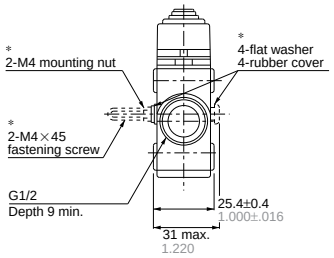
mm inch

• Push plunger
(Side mounting)



AZ66101





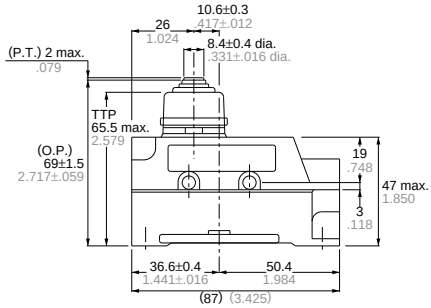
*Attached as an accessary

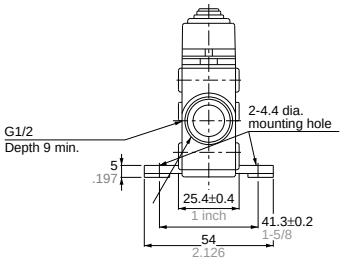
General tolerance: ±0.8 ±.031

• Push plunger
(Bottom mounting)



AZ66201





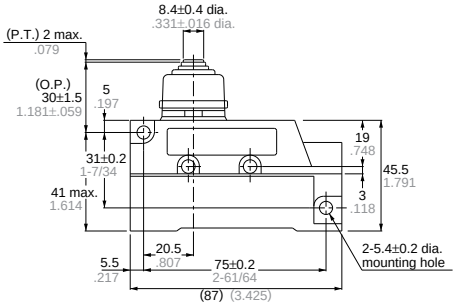
General tolerance: ±0.8 ±.031

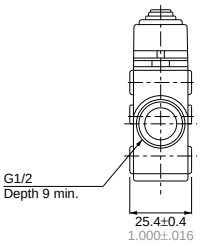
• Push plunger
(Diagonal mounting)

mm inch



AZ66001



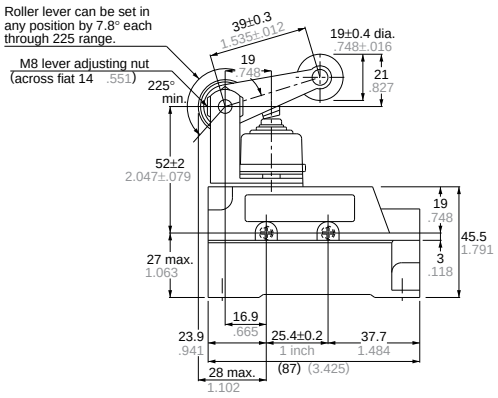


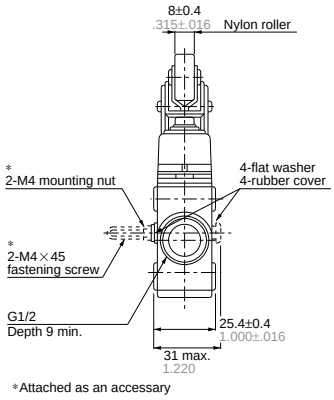
General tolerance: ±0.8 ±.031

• Roller lever
(Side mounting)



AZ66104





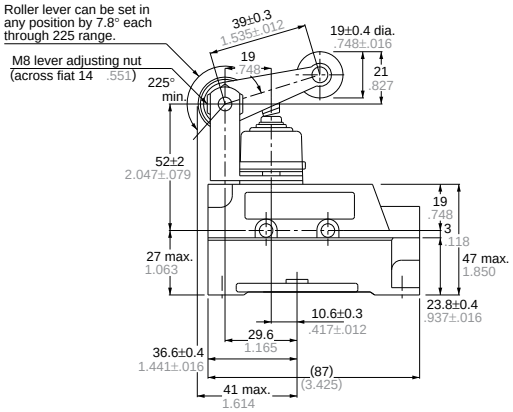
*Attached as an accessory

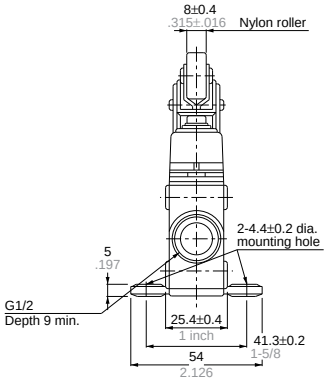
General tolerance: ±0.8 ±.031

• Roller lever
(Bottom mounting)



AZ66204



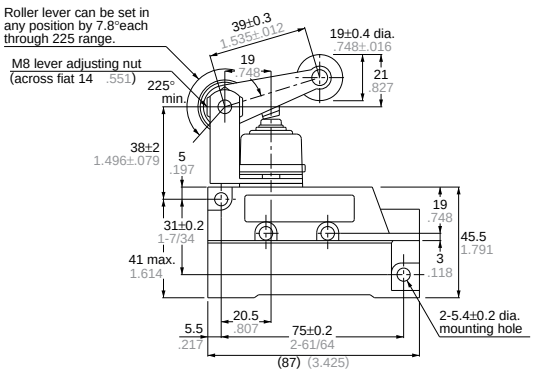


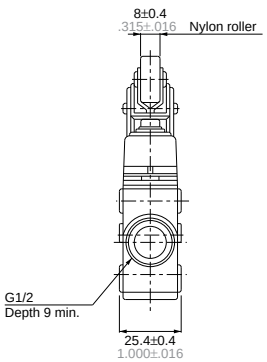
General tolerance: ±0.8 ±.031

• Roller lever
(Diagonal mounting)



AZ66004





General tolerance: ±0.8 ±.031