

3. With LED

Lamp connection	Actuator		Lamp rating	
			12V DC	24 to 48V DC
			Part No.	
Spring type	Push plunger		AZ5101161	AZ510116
	Roller plunger		AZ5102161	AZ510216
	Roller arm	Standard type	AZ5104161	AZ510416
		O.T. amplified type	AZ5124161	AZ512416
	Yoke		AZ5105161	AZ510516
	Flexible		AZ5106161	AZ510616
	Adjustable rod	Standard type	AZ5107161	AZ510716
		O.T. amplified type	AZ5127161	AZ512716
Adjustable roller arm	Standard type	AZ5108161	AZ510816	
	O.T. amplified type	AZ5128161	AZ512816	
Lead wire type	Push plunger		AZ5101661	AZ510166
	Roller plunger		AZ5102661	AZ510266
	Roller arm	Standard type	AZ5104661	AZ510466
		O.T. amplified type	AZ5124661	AZ512466
	Yoke		AZ5105661	AZ510566
	Flexible		AZ5106661	AZ510666
	Adjustable rod	Standard type	AZ5107661	AZ510766
		O.T. amplified type	AZ5127661	AZ512766
Adjustable roller arm	Standard type	AZ5108661	AZ510866	
	O.T. amplified type	AZ5128661	AZ512866	

Note) Cadmium free contact types are available on a custom-made basis. Please add an "F" to the end of the part number when ordering.
LED rating 6V DC type is available. When ordering, add suffix 162 (spring type) or 662 (lead wire type) to the standard part No..

SPECIFICATIONS

1. Rating

1) Standard type

Rated load	Types of load	Resistive load (cos φ≅1)	Inductive load (cos φ≅0.4)	Motor or lamp load	
				N.C. contact	N.O. contact
125V AC		10A	6A	4A	2A
250V AC		6A	4A	2.5A	1.2A
500V AC		2A	1.2A	0.75A	0.5A
125V DC		0.8A	0.1A	-	-

2) Type with lamp

	Rated control voltage	Resistive load (cos φ≅1)	Inductive load (cos φ≅0.4)
With neon lamp	125V AC	10A	6A
	240V AC	6A	4A
With LED	24V DC	6A	-

2. Characteristics

Contact arrangement	1 Form A 1Form B	
Initial contact resistance, max.	15mΩ (By voltage drop 6 to 8V DC 1A)	
Contact material	Silver	
Initial insulation resistance (At 500V DC)	Min. 100MΩ	
Initial breakdown voltage	1,000Vrms for 1 min Between non-consecutive terminals 2,000Vrms for 1 min Between dead metal parts and each terminal 2,000Vrms for 1 min Between ground and each terminal	
Shock resistance	294m/s ² {30G}	
Vibration resistance	Standard type: Max. 55Hz Type with indicator: 10 to 50 Hz, double amplitude of 1.5mm	
Expected life (Min. operations)	Mechanical	10 ⁷ (at 60 cpm)
	Electrical	5×10 ⁵ (at 20 cpm, rated load)
Ambient temperature	Standard type: -5 to +80°C +23 to +176°F With indicator: -5 to +60°C +23 to +140°F	
Ambient humidity	Max. 95%R.H.	
Max. operating speed	120 cpm	

3. Operating characteristics

Actuator	Characteristics	O.F. (N {gf}) max.	R.F. (N {gf}) min.	Pretravel (P.T.), max. mm inch	Movement Differential (M.D.), max. mm inch	Overtravel (O.T.), min. mm inch	Totaltravel (T.T.), min.	Repeat Accuracy of Operating Position, max. mm inch ^{*1}
		Push plunger		26.67 {2,720}	8.92 {910}	1.7 .067	1.0 .039	6.4 .252
Roller plunger		26.67 {2,720}	8.92 {910}	1.7 .067	1.0 .039	5.6 .220	-	0.1 .004
Roller arm	Standard type	13.34 {1,360}	2.23 {227}	15°±5°	12°	-	45°	1°
	O.T. amplified type	8.83 {900}	0.49 {50}	25°±5°	15°	-	90°	1°
Yoke		8.90 {908}	8.90 {908}	50°±5°	-	-	90°±10°	-
Flexible ^{*2}		1.39 {142}	-	20±10 .787±.394	-	-	-	-
Adjustable rod ^{*3}	Standard type	1.39 {142}	0.27 {28}	15°±5°	12°	-	45°	1°
	O.T. amplified type	2.39 {244}	0.14 {14}	25°±5°	15°	-	90°	1°
Adjustable roller arm ^{*4}	Standard type	13.34 {1,360}	2.23 {227}	15°±5°	12°	-	45°	1°
	O.T. amplified type	8.83 {900}	0.49 {50}	25°±5°	15°	-	90°	1°

*1) Value between max. and min. value in the operating position at 20 cpm, no-load

*2) Measured at the position within 5mm from the top of actuator.

*3) O.F., R.F.: measured at the center distance of 135mm 5.315inch.

*4) O.F., R.F.: measured at the center distance of 38mm 1.496inch.

*5) For the operating characteristics, refer to the TECHNICAL INFORMATION.

4. Protective characteristics

Protective construction IEC	AZ5 limit switches (Standard type)	AZ5 limit switches (With lamp) (neon/LED)
IP60	○	○
IP64	○	○
IP67	○	○

5. Lamp rating

Types	Rated operating voltage	Operating voltage range	Internal resistance
neon lamp	100V AC	80 to 120V AC	120kΩ
	200V AC	160 to 240V AC	240kΩ
LED lamp	6V AC/DC	5 to 15V AC/DC	2.4kΩ
	12V AC/DC	9 to 28V AC/DC	4.7kΩ
	24 to 48V AC/DC	20 to 55V AC/DC	15kΩ

FOREIGN STANDARD

Standard	Applicable product	Part No.	Notes
UL recognized product	File No. : E99838 Ratings : 10A, 1/2HP, 125V AC 6A, 1/2HP, 250V AC Product type : standard model only	Add "9" to the end of the standard part No.	Please ask about the price. Comes fitted with an earth pin.