

SL (AZ3)

3. Socket with LED (cord length: 1m 3.281ft.)

Applicable limit switches	Lamp Connection	Lamp rating	Part No.
Exposed terminal types	Normally open (N.O.) connection	6V DC	AZ3807162
		12V DC	AZ3807161
		24 to 48V DC	AZ380716
	Normally closed (N.C.) connection	6V DC	AZ3807362
		12V DC	AZ3807361
		24 to 48V DC	AZ380736

- Notes) 1. Types with 24 to 48V DC lamp rating are recommended for PC input use.
2. The following cord lengths are also available and lot-produced upon request.

Cord length	Part No.
2m	AZ38 [2]7*6*
3m	AZ38 [3]7*6*
5m	AZ38 [5]7*6*

The 5th digit (boxed) of part number denotes the length of cord.
Numerals come in the asterisked (*) digits, which show the lamp specifications.
The 7th digit: 1: N.O. connection, 3: N.C. connection
The 9th: None: 24 to 48V DC, 1: 12V DC, 2: 6V DC

FOREIGN STANDARDS

Standards	Applicable product	Part No.
UL recognized product	File No.: E122222 Ratings: 10 ⁵ rating 4A, 250V AC Product type: All products	Add "9" to the end of the part No.
CSA certified product	File No.: LR55880 Ratings: 10 ⁵ rating 4A, 250V AC Product type: All products excluding types with socket and cord.	

SPECIFICATIONS

1. Rating

Rated control voltage	125V AC	250V AC	30V DC	125V DC
Resistive load (cos $\phi \approx 1$)	4A	4A	4A	0.1A
Inductive load (cos $\phi \approx 0.4$)	2.5A	2.5A	2.5A	0.1A

2. Characteristics

Contact arrangement	1 From C	
Initial contact resistance, max.	60 m Ω (By voltage drop 5 to 6V DC 1A)	
Contact material	AgNi contact	
Initial insulation resistance (At 500V DC)	Min. 100M Ω	
Initial breakdown voltage	Between non-consecutive terminals	1000 Vrms for 1 min
	Between dead metal parts and each terminal	1500 Vrms for 1 min
	Between ground and each terminal	1500 Vrms for 1 min
Expected life (min. operations)	Mechanical	10 ⁷ (at 60 cpm)
	Electrical	10 ⁵ (at 20 cpm, 4A 250V AC resistive)
Ambient temperature	-20 to +60°C -4 to +140°F	
Ambient humidity	Max. 95% R.H.	
Max. operating speed	120 cpm	

3. Mechanical characteristics

Actuator	Hinge lever		Roller lever		One-way roller lever	Hinge short lever	Short roller lever	One-way short roller lever	
Operating Force (O.F.)	1.18N {120gf}	1.96N {200gf}	1.18N {120gf}	1.96N {200gf}	1.96N {200gf}	2.94N {300gf}	2.94N {300gf}	2.94N {300gf}	
Shock resistance, min.	In the free position	98m/s ² {10G}	294m/s ² {30G}	98m/s ² {10G}	196m/s ² {20G}	147m/s ² {15G}	294m/s ² {30G}	196m/s ² {20G}	147m/s ² {15G}
	In the full operating position	294m/s ² {30G}	294m/s ² {30G}	294m/s ² {30G}	294m/s ² {30G}	294m/s ² {30G}	294m/s ² {30G}	294m/s ² {30G}	294m/s ² {30G}
Vibration resistance	Vibration rate	10 to 55Hz	10 to 45Hz	10 to 55Hz	10 to 45Hz	10 to 55Hz	10 to 55Hz	10 to 55Hz	
	Double amplitude	1.5mm .059inch	1.0mm .039inch	1.5mm .059inch	1.0mm .039inch	1.5mm .059inch	1.5mm .059inch	1.5mm .059inch	

4. 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	Operating Position (O.P.) mm inch
		Hinge lever	1.18 {120}	1.96 {200}	0.24 {25}	0.49 {50}	3.0 .118	1.5 .059	6.0 .236
Roller lever		1.18 {120}	1.96 {200}	0.24 {25}	0.49 {50}	3.0 .118	1.5 .059	6.0 .236	30.7±1.5 1.209±.059
One-way roller lever		1.96 {200}		0.49 {50}		3.0 .118	1.5 .059	6.0 .236	40.5±1.5 1.594±.059
Hinge short lever		2.94 {300}		0.59 {60}		2.0 .079	1.0 .039	3.5 .138	13.7±1.5 .539±.059
Short roller lever		2.94 {300}		0.59 {60}		2.0 .079	1.0 .039	3.5 .138	27.7±1.5 1.091±.059
One-way short roller lever		2.94 {300}		0.59 {60}		2.0 .079	1.0 .039	3.5 .138	36.7±1.5 1.445±.059

Note) For the operating characteristics, refer to the TECHNICAL INFORMATION.

5. Protective characteristics

Protective construction	Rubber cover type	Types with socket and cord
IEC		
IP60	○	○
IP62	-	○
IP63	-	○
IP64	-	○

6. LED rating

Rated operating voltage	Operating voltage range	Internal resistance
6V DC	5 to 15V DC	2.4K Ω
12V DC	9 to 28V DC	4.7K Ω
24 to 48V DC	20 to 55V DC	15K Ω