

## COMPACT LIMIT SWITCHES: AZ-8 SERIES

### Features

- Designed for applications of small mounting space
- Constructed with Metal based and plastic cover
- Wide range of actuators available
- Pre-molded flexible cable gland for fast and simple wiring termination
- Positive Opening of NC contacts (for rotary style only)
- Improved current carrying capacity to 10A
- M12 cable gland available

### Definitions of Operating Characteristics

OF	Operating Force	PT	Pretravel
RF	Releasing Force	MD	Movement Differential
OT	Overtravel	OP	Operating Position
TT	Total Travel	PO	Travel to Positive Opening

### Specifications

Operating Speed	0.05mm-2m/sec
Operating Frequency	Mechanical: 120ops/min Electrical: 30 ops/min
Insulation Resistance	>100MΩ@500V DC
Contact Resistance	<25mΩ (initial value)
Rated Thermal Current	10A/250VAC (EN60947-5-1)
Dielectric Strength	1000VAC for 1 min between current carrying parts 2000VAC for 1 min between non-current carrying parts
Service Life	Mechanically 1.0 x10 <sup>7</sup> (operations) Electrically 5 x10 <sup>5</sup> (operations)
Operating Temperature	-20 to +70°C (-4 to 158°F)
Humidity	< 95%RH
Degree of Protection	IP65

### Dimensions Unit: mm

**AZ-8104**  
Snap Action

Operating Characteristics

OF <sub>max</sub>	18N cm	MD	12°
RF <sub>min</sub>	3N cm	TT	95°
PT <sub>max</sub>	20°	PO	25°
OT <sub>min</sub>	75°		

General tolerance: ±0.4

**AZ-8108**  
Snap Action

Operating Characteristics

OF <sub>max</sub>	18N cm	MD	12°
RF <sub>min</sub>	3N cm	TT	95°
PT <sub>max</sub>	20°	PO	25°
OT <sub>min</sub>	75°		

General tolerance: ±0.4

**AZ-8107**  
Snap Action

Operating Characteristics

OF <sub>max</sub>	18N cm	MD	12°
RF <sub>min</sub>	3N cm	TT	95°
PT <sub>max</sub>	20°	PO	25°
OT <sub>min</sub>	75°		

General tolerance: ±0.4

**AZ-8111**  
Snap Action

Operating Characteristics

OF <sub>max</sub>	9N	MD <sub>max</sub>	1.2mm
RF <sub>min</sub>	1.5N	TT	5.5mm
PT <sub>max</sub>	1.5mm	OP	25mm
OT <sub>min</sub>	4mm		

General tolerance: ±0.4

## COMPACT LIMIT SWITCHES: AZ-8 SERIES

**AZ-8112**

Operating Characteristics

OF <sub>max</sub>	9N	MD <sub>max</sub>	1.2mm
RF <sub>min</sub>	1.5N	TT	5.5mm
PT <sub>max</sub>	1.5mm	OP	36.5mm
OT <sub>min</sub>	4mm		

Snap Action

13 14  
21 22

**AZ-8122**

Operating Characteristics

OF <sub>max</sub>	9N	MD <sub>max</sub>	1.2mm
RF <sub>min</sub>	1.5N	TT	5.5mm
PT <sub>max</sub>	1.5mm	OP	36.5mm
OT <sub>min</sub>	4mm		

Snap Action

13 14  
21 22

**AZ-8166**

Operating Characteristics

OF <sub>max</sub>	2N		
PT <sub>max</sub>	20°		
OT <sub>min</sub>	2°		

Snap Action

13 14  
21 22

**AZ-8169**

Operating Characteristics

OF <sub>max</sub>	2N		
PT <sub>max</sub>	20°		
OT <sub>min</sub>	2°		

Snap Action

13 14  
21 22

**AZ-8200**

Operating Characteristics

OF <sub>max</sub>	2N		
PT <sub>max</sub>	20°		
OT <sub>min</sub>	2°		

Snap Action

13 14  
21 22

**AZ-8111 (M12)**

Operating Characteristics

OF <sub>max</sub>	9N	MD <sub>max</sub>	1.2mm
RF <sub>min</sub>	1.5N	TT	5.5mm
PT <sub>max</sub>	1.5mm	OP	25mm
OT <sub>min</sub>	4mm		

Snap Action

13 14  
21 22