

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 x 10 ⁷ (operations) Electrically 5 x 10 ⁵ (operations)
Operating Temperature	-20 to +70°C (-4 to 158°F)
Humidity	< 95%
Degree of Protection	IP65

Dimensions Unit: mm

<p>AZ-8104 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>18N cm</td> <td>MD</td> <td>12°</td> </tr> <tr> <td>RF_{min}</td> <td>3N cm</td> <td>TT</td> <td>95°</td> </tr> <tr> <td>PT_{max}</td> <td>20°</td> <td>PO</td> <td>25°</td> </tr> <tr> <td>OT_{min}</td> <td>75°</td> <td></td> <td></td> </tr> </table> <p>13 14 21 F 22</p>	OF _{max}	18N cm	MD	12°	RF _{min}	3N cm	TT	95°	PT _{max}	20°	PO	25°	OT _{min}	75°			<p>AZ-8108 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>18N cm</td> <td>MD</td> <td>12°</td> </tr> <tr> <td>RF_{min}</td> <td>3N cm</td> <td>TT</td> <td>95°</td> </tr> <tr> <td>PT_{max}</td> <td>20°</td> <td>PO</td> <td>25°</td> </tr> <tr> <td>OT_{min}</td> <td>75°</td> <td></td> <td></td> </tr> </table> <p>13 14 21 F 22</p>	OF _{max}	18N cm	MD	12°	RF _{min}	3N cm	TT	95°	PT _{max}	20°	PO	25°	OT _{min}	75°		
OF _{max}	18N cm	MD	12°																														
RF _{min}	3N cm	TT	95°																														
PT _{max}	20°	PO	25°																														
OT _{min}	75°																																
OF _{max}	18N cm	MD	12°																														
RF _{min}	3N cm	TT	95°																														
PT _{max}	20°	PO	25°																														
OT _{min}	75°																																
<p>AZ-8107 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>18N cm</td> <td>MD</td> <td>12°</td> </tr> <tr> <td>RF_{min}</td> <td>3N cm</td> <td>TT</td> <td>95°</td> </tr> <tr> <td>PT_{max}</td> <td>20°</td> <td>PO</td> <td>25°</td> </tr> <tr> <td>OT_{min}</td> <td>75°</td> <td></td> <td></td> </tr> </table> <p>13 14 21 F 22</p>	OF _{max}	18N cm	MD	12°	RF _{min}	3N cm	TT	95°	PT _{max}	20°	PO	25°	OT _{min}	75°			<p>AZ-8111 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>9N</td> <td>MD_{max}</td> <td>1.2mm</td> </tr> <tr> <td>RF_{min}</td> <td>1.5N</td> <td>TT</td> <td>5.5mm</td> </tr> <tr> <td>PT_{max}</td> <td>1.5mm</td> <td>OP</td> <td>25mm</td> </tr> <tr> <td>OT_{min}</td> <td>4mm</td> <td></td> <td></td> </tr> </table> <p>13 14 21 F 22</p>	OF _{max}	9N	MD _{max}	1.2mm	RF _{min}	1.5N	TT	5.5mm	PT _{max}	1.5mm	OP	25mm	OT _{min}	4mm		
OF _{max}	18N cm	MD	12°																														
RF _{min}	3N cm	TT	95°																														
PT _{max}	20°	PO	25°																														
OT _{min}	75°																																
OF _{max}	9N	MD _{max}	1.2mm																														
RF _{min}	1.5N	TT	5.5mm																														
PT _{max}	1.5mm	OP	25mm																														
OT _{min}	4mm																																

COMPACT LIMIT SWITCHES: AZ-8 SERIES

<p>AZ-8112 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>9N</td> <td>MD_{max}</td> <td>1.2mm</td> </tr> <tr> <td>RF_{min}</td> <td>1.5N</td> <td>TT</td> <td>5.5mm</td> </tr> <tr> <td>PT_{max}</td> <td>1.5mm</td> <td>OP</td> <td>36.5mm</td> </tr> <tr> <td>OT_{min}</td> <td>4mm</td> <td></td> <td></td> </tr> </table> <p>13 14 21 22</p>	OF _{max}	9N	MD _{max}	1.2mm	RF _{min}	1.5N	TT	5.5mm	PT _{max}	1.5mm	OP	36.5mm	OT _{min}	4mm			<p>AZ-8122 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>9N</td> <td>MD_{max}</td> <td>1.2mm</td> </tr> <tr> <td>RF_{min}</td> <td>1.5N</td> <td>TT</td> <td>5.5mm</td> </tr> <tr> <td>PT_{max}</td> <td>1.5mm</td> <td>OP</td> <td>36.5mm</td> </tr> <tr> <td>OT_{min}</td> <td>4mm</td> <td></td> <td></td> </tr> </table> <p>13 14 21 22</p>	OF _{max}	9N	MD _{max}	1.2mm	RF _{min}	1.5N	TT	5.5mm	PT _{max}	1.5mm	OP	36.5mm	OT _{min}	4mm		
OF _{max}	9N	MD _{max}	1.2mm																														
RF _{min}	1.5N	TT	5.5mm																														
PT _{max}	1.5mm	OP	36.5mm																														
OT _{min}	4mm																																
OF _{max}	9N	MD _{max}	1.2mm																														
RF _{min}	1.5N	TT	5.5mm																														
PT _{max}	1.5mm	OP	36.5mm																														
OT _{min}	4mm																																
<p>AZ-8166 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>2N</td> <td></td> <td></td> </tr> <tr> <td>PT_{max}</td> <td>20°</td> <td></td> <td></td> </tr> <tr> <td>OT_{min}</td> <td>2°</td> <td></td> <td></td> </tr> </table> <p>13 14 21 22</p>	OF _{max}	2N			PT _{max}	20°			OT _{min}	2°			<p>AZ-8169 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>2N</td> <td></td> <td></td> </tr> <tr> <td>PT_{max}</td> <td>20°</td> <td></td> <td></td> </tr> <tr> <td>OT_{min}</td> <td>2°</td> <td></td> <td></td> </tr> </table> <p>13 14 21 22</p>	OF _{max}	2N			PT _{max}	20°			OT _{min}	2°										
OF _{max}	2N																																
PT _{max}	20°																																
OT _{min}	2°																																
OF _{max}	2N																																
PT _{max}	20°																																
OT _{min}	2°																																
<p>AZ-8200 Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>2N</td> <td></td> <td></td> </tr> <tr> <td>PT_{max}</td> <td>20°</td> <td></td> <td></td> </tr> <tr> <td>OT_{min}</td> <td>2°</td> <td></td> <td></td> </tr> </table> <p>13 14 21 22</p>	OF _{max}	2N			PT _{max}	20°			OT _{min}	2°			<p>AZ-8111 (M12) Snap Action</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OF_{max}</td> <td>9N</td> <td>MD_{max}</td> <td>1.2mm</td> </tr> <tr> <td>RF_{min}</td> <td>1.5N</td> <td>TT</td> <td>5.5mm</td> </tr> <tr> <td>PT_{max}</td> <td>1.5mm</td> <td>OP</td> <td>25mm</td> </tr> <tr> <td>OT_{min}</td> <td>4mm</td> <td></td> <td></td> </tr> </table> <p>13 14 21 22</p>	OF _{max}	9N	MD _{max}	1.2mm	RF _{min}	1.5N	TT	5.5mm	PT _{max}	1.5mm	OP	25mm	OT _{min}	4mm						
OF _{max}	2N																																
PT _{max}	20°																																
OT _{min}	2°																																
OF _{max}	9N	MD _{max}	1.2mm																														
RF _{min}	1.5N	TT	5.5mm																														
PT _{max}	1.5mm	OP	25mm																														
OT _{min}	4mm																																