

SZL-VL-S Series Limit Switches

Honeywell

Features

Designed for applications of small mounting space
Improved 10A current capacity
Constructed with Metal based and plastic cover
Special design for easy wiring with ample wiring Space
Standard mounting dimension
SPDT contact with positive opening of NC contacts
Long mechanical life
Oil resist, water and dust proof with Pre-molded flexible cable gland for fast and simple wiring termination

Applications:

Machine Tools
Food Processing Machinery
Conveyors
Packaging Machine
Injection Molding Machine
Specialty Machinery
Stereoscopic Warehouse

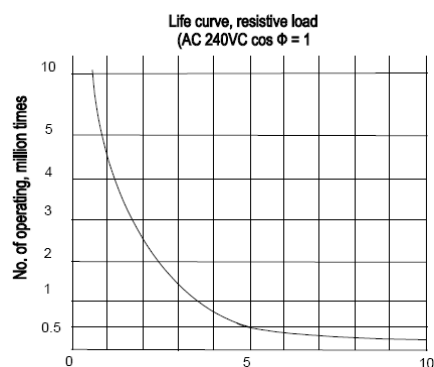


The new economical SZL-VL-S Series miniature type limit switches are specially designed for applications of small mounting space. These miniature switches are ideal for OEM machinery which requires a rugged and reliable limit switch that is capable of being mounted in space restricted applications. A wide range of actuators and optional neon lamp indicators add additional flexibility. A special pre-molded flexible cable gland allows for fast and simple wiring termination

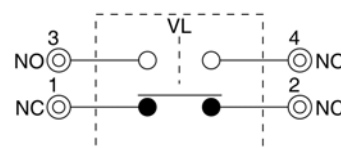
Characteristics

Contact Type/Material	SPDT, Silver Alloy
Actuators	See selection guide
Operating Speed	0.05mm ~ 2m/s
Operating Frequency	Mechanically : 120 ops/min, Electrically : 30 ops/min
Rated Current/Voltage	10A/250VAC (EN60947-5-1)
Contact Resistance	<25mΩ (initial)
Insulation Resistance	>100MΩ@500V DC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically : 5,000,000 ops Electrically : 500,000 ops at maximum rating
Shock	Free position:<10G, Maximum position : <30G
Vibration	10 to 55 Hz, 1.5 mm double amplitude
Operating Temperature	-20 to 60°C
Humidity	Max. 95%RH
Certification	CE, UL file# E312336 CCC file # 2007010305227223,
Degree of Protection	IP64

Mechanical Life Curve



Wiring Diagram

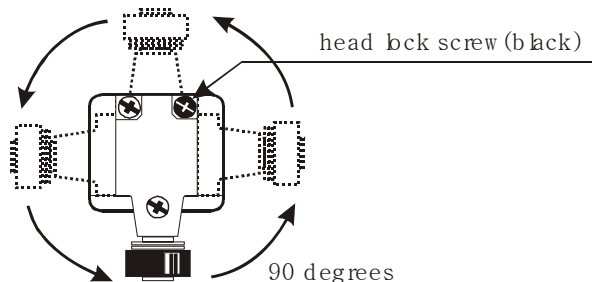


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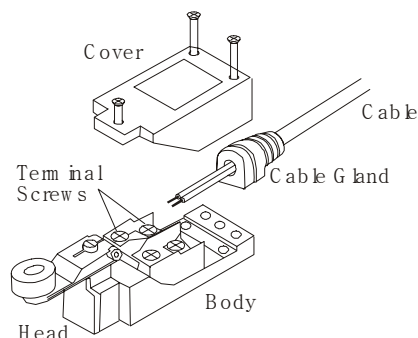
Head Direction Change

All SZL-V-S with side rotary actuator heads may be moved in 90 degree increments to any of the four directions by removing the head lock screw.

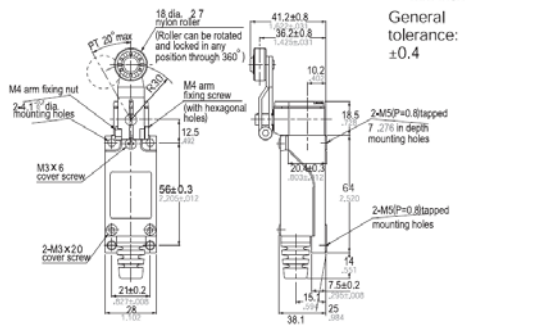
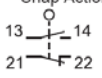
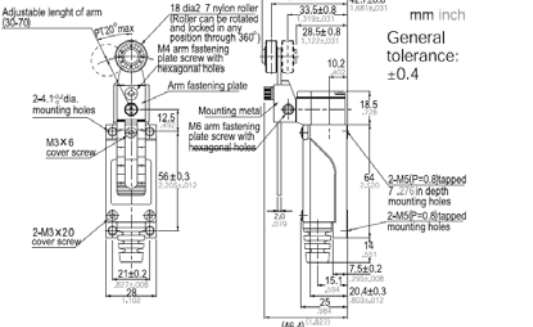
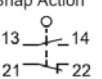
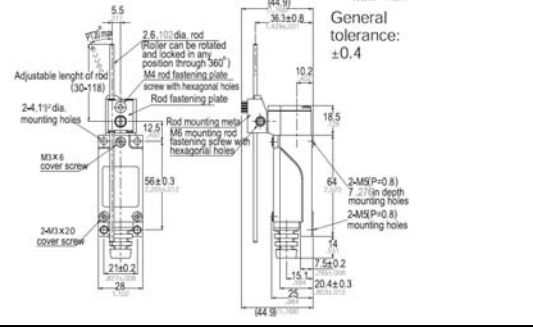
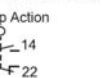


Internal Construction View

When the cover is removed, the terminals are fully accessible. This will allow wiring work to be completed very easily. Flexible molded cable gland also simplify wiring work and allow switch to be used in small mounting space.



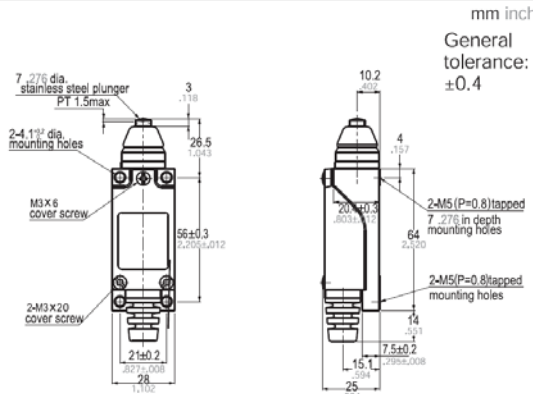
Dimension and Operating Characteristics

<SZL-VL-S-I> 	mm inch  General tolerance: ± 0.4	Operating Characteristi Snap Action  OF_{max} 5.88N (600g) RF_{min} 0.49N (50g) PT_{max} 20° OT_{min} 75° MD_{max} 10° TT 95°
<SZL-VL-S-J> 	mm inch  General tolerance: ± 0.4	Operating Characteristics Snap Action  OF_{max} 3.35~7.84N (342~800) RF_{min} 0.21~0.49N (21~50g) PT_{max} 20° OT_{min} 75° MD_{max} 10° TT 95°
<SZL-VL-S-C> 	mm inch  General tolerance: ± 0.4	Operating Characteristics Snap Action  OF_{max} 1.99~7.84N (203~800gf) RF_{min} 0.12~0.49N PT_{max} 20° OT_{min} 75° MD_{max} 10° TT 95°

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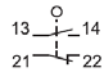
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<SZL-VL-S-D>



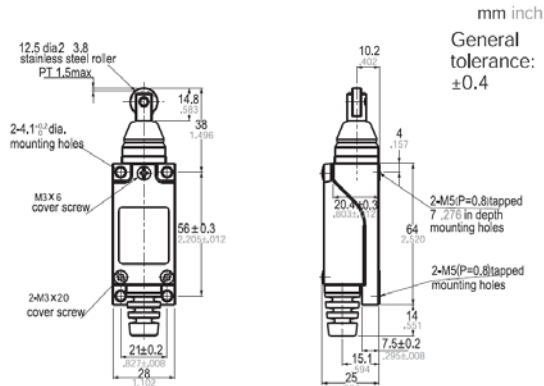
Operating Characteristic

Snap Action



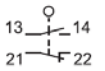
OF _{max}	8.82N (900gf)
RF _{min}	1.47N
PT _{max}	1.5mm
OT _{min}	4mm
MD _{max}	0.7mm
TT	5.5mm

<SZL-VL-S-H>



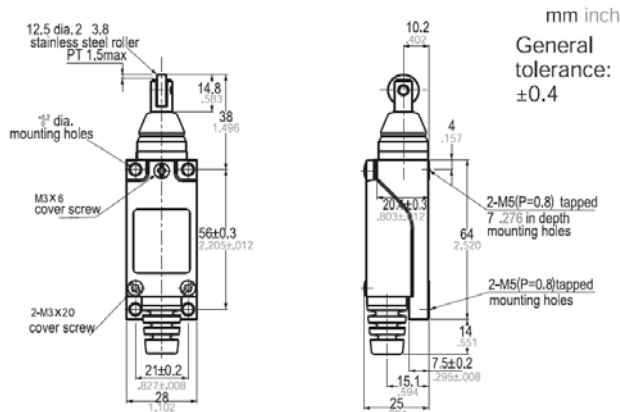
Operating Characteristic

Snap Action



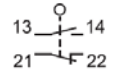
OF _{max}	8.82N (900gf)
RF _{min}	1.47N
PT _{max}	1.5mm
OT _{min}	4mm
MD _{max}	0.7mm
TT	5.5mm

<SZL-VL-S-E>



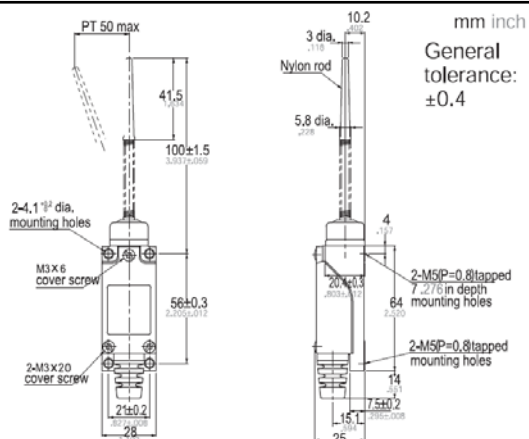
Operating Characteristic

Snap Action



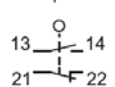
OF _{max}	8.82N (900gf)
RF _{min}	1.47N
PT _{max}	1.5mm
OT _{min}	4mm
MD _{max}	0.7mm
TT	5.5mm

<SZL-VL-S-F>



Operating Characteristics

Snap Action

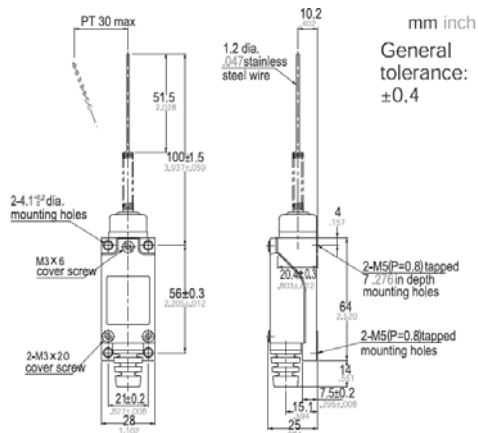


OF _{max}	0.88N (90gf)
PT _{max}	30mm
OT _{max}	20mm

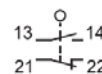
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<SZL-VL-S-G>

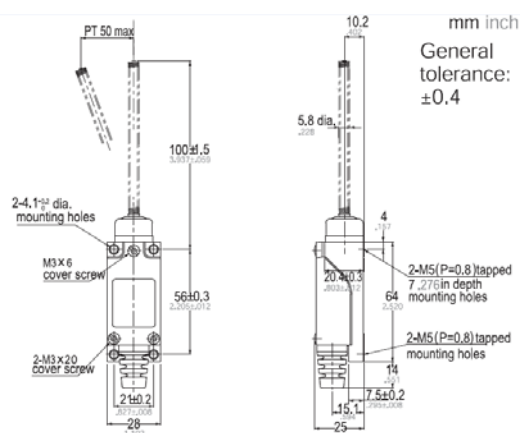


Operating Characteristics
Snap Action

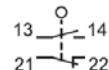


OF_{max} 0.88N (90gf)
PT_{max} 30mm
OT_{max} 20mm

<SZL-VL-S-K>



Operating Characteristics
Snap Action



OF_{max} 0.88N (90gf)
PT_{max} 30mm
OT_{max} 20mm