General Purpose
Compact Limit Switches

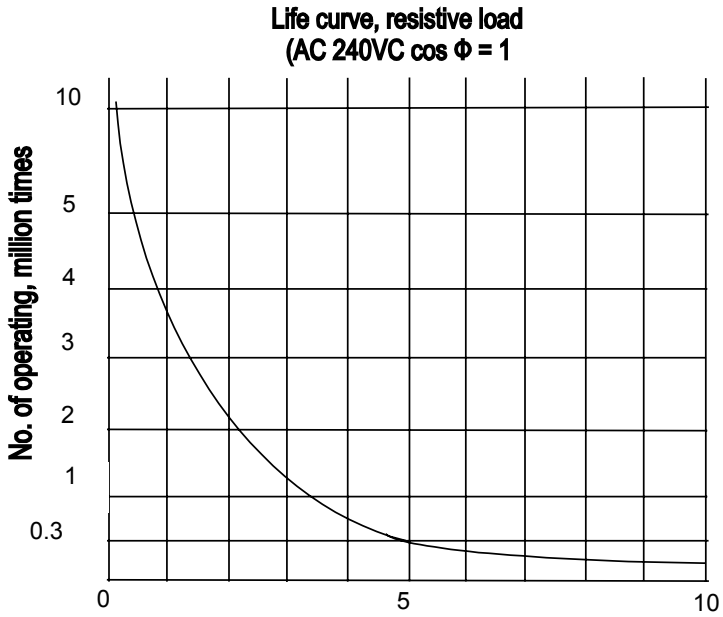
VL Series

FEATURES
- Gold plated silver contacts
- Compact design for small mounting space.
- Special design for easy wiring with ample wiring space
- Two-circuit double-break
- Diecast base and plastic cover
- Standard mounting dimensions
- Long mechanical life
- 5Amp current capacity
- Ambient Temp range: -20 to 60 Degrees Celsius [-4 to 140 degrees Fahrenheit]
- C-UL, CE approved

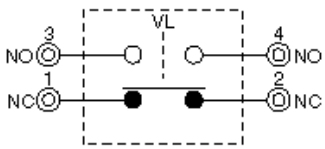
TYPICAL APPLICATIONS
- Machine Tools
- Material Handling
- Food Processing Machinery
- Conveyors
- Packaging Machinery

DESCRIPTION
The new economical SZL-VL 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

LIFE CURVE



CIRCUITRY



SELECTION GUIDE

Features	**SZL-VL-A**	**SZL-VL-B**	**SZL-VL-C**
Actuator	Side Rotary - Roller Lever Standard	Side Rotary - Roller Lever Adjustable	Side Rotary - Rod Adjustable
Operating Force (O.F.)	5,88 N max. [1.32 lbs max.]	3,35 N - 7,84 N max. [0.75 lbs - 1.76 lbs max.]	2 N - 7,84 N max. [.45 lbs - 1.76 lbs max.]
Release Force (R.F.)	0,49 N min. [0.11 lbs min.]	0,21 N - 0,49 N min. [0.046 lbs - 0.11 lbs min.]	0,12 N - 0,49 N min. [0.026 lbs - 0.11 lbs min.]
Pretravel (P.T.)	20 ° max.	20 ° max.	20 ° max.
Overtravel (O.T.)	75 ° min.	75 ° min.	75 ° min.
Differential Travel (D.T.)	10 ° max.	10 ° max.	10 ° max.
Product Type	Minature Limit Switches		
Ampere Rating	5.0 A / 0.4 A		
Supply Voltage	250 Vac max. / 125 Vdc max.		
Termination Type	Cable Gland		
Operating Temperature Range	-20 °C to 60 °C [-4 °F to140°F]		
Vibration	55 Hz at double amplitude of 1.5 mm		
Housing Material	Zinc Die-Cast / Plastic		
Shock	10 g max.		
Circuitry	1NC 1NO SPDT; Double Break		
Approvals	UL, C-UL, CE		
Sealed	Industrial		
UL File #	E150950		
Availability	North-America; Asia-Pacific		
Sealing	IP64		
Mechanical Life	up to 10 million operations		
Series Name	VL Series		

SELECTION GUIDE

Features	**SZL-VL-D**	**SZL-VL-E**	**SZL-VL-F**
Actuator	Top Plunger	Cross Roller Plunger	Wobble - Plastic Rod Coil Spring
Operating Force (O.F.)	8,83 N max. [2 lbs max.]	8,83 N max. [2 lbs max.]	0,88 N max. [0.2 lbs max.]
Release Force (R.F.)	1,47 N min. [0.33 lbs min.]	1,47 N min. [0.33 lbs min.]	-
Pretravel (P.T.)	1,5 mm max. [0.060 in max.]	1,5 mm max. [0.060 in max.]	30 mm max. [1.18 in max.]
Overtravel (O.T.)	4 mm min. [0.158 in min.]	4 mm min. [0.158 in min.]	20 mm min. [0.788 in min.]
Differential Travel (D.T.)	0,7 mm max. [0.028 in. max.]	0,7 mm max. [0.028 in. max.]	-
Product Type	Minature Limit Switches		
Ampere Rating	5.0 A / 0.4 A		
Supply Voltage	250 Vac max. / 125 Vdc max.		
Termination Type	Cable Gland		
Operating Temperature Range	-20 °C to 60 °C [-4 °F to140°F]		
Vibration	55 Hz at double amplitude of 1.5 mm		
Housing Material	Zinc Die-Cast / Plastic		
Shock	10 g max.		
Circuitry	1NC 1NO SPDT; Double Break		
Approvals	UL, C-UL, CE		
Sealed	Industrial		
UL File #	E150950		
Availability	North-America; Asia-Pacific		
Sealing	IP64		
Mechanical Life	up to 10 million operations		
Series Name	VL Series		

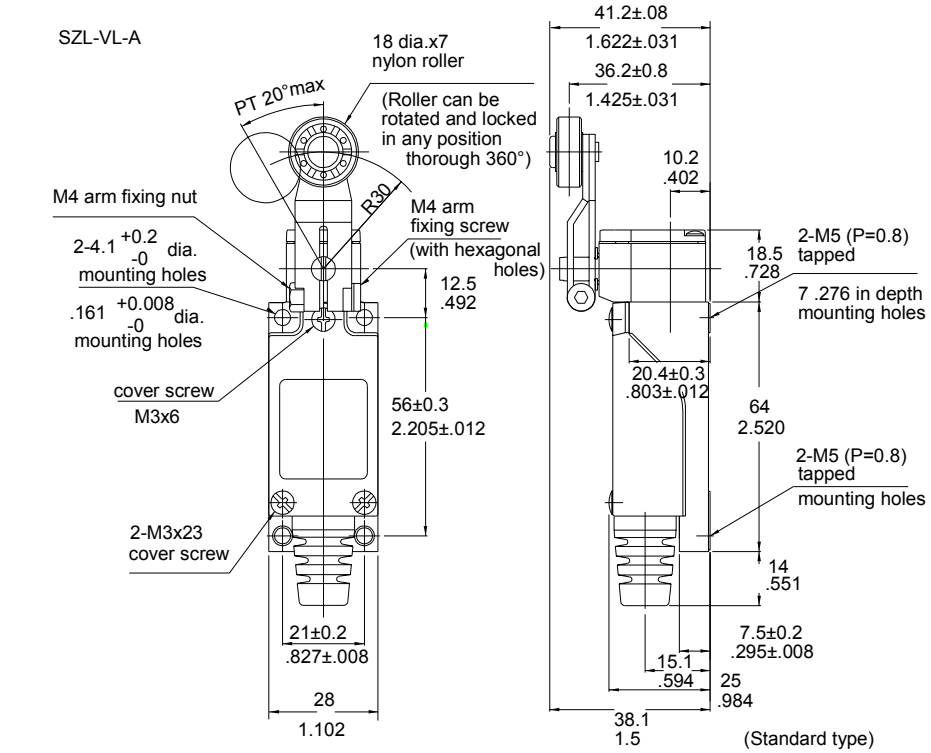
SELECTION GUIDE

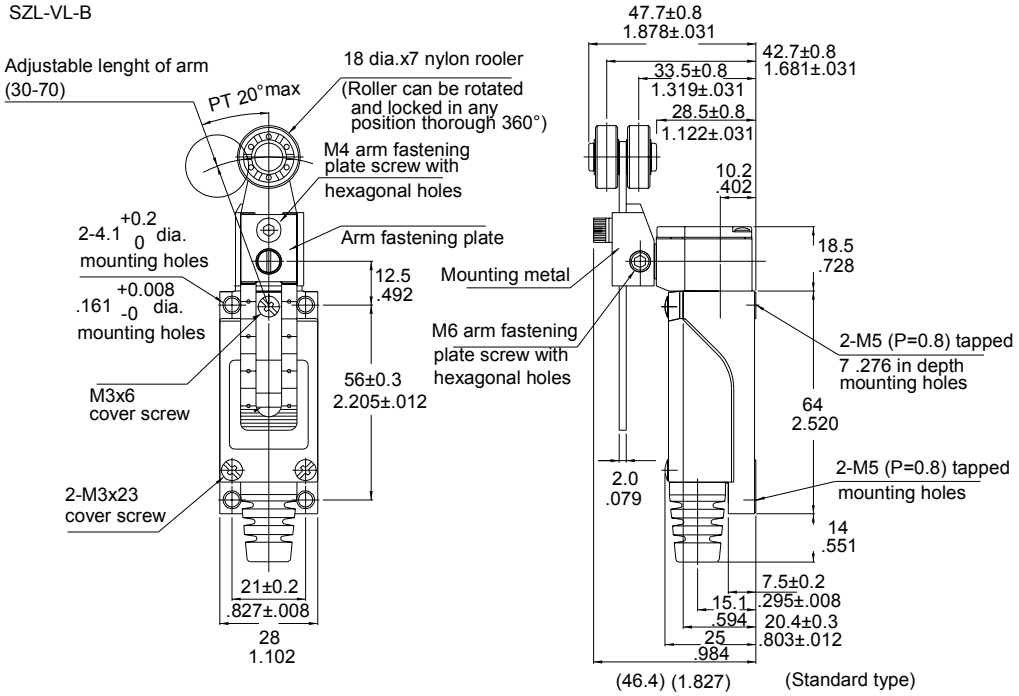
Features	**SZL-VL-G**	**SZL-VL-H**	
Actuator	Wobble - Coil Spring	Roller Plunger	
Operating Force (O.F.)	0,88 N max. [0.2 lbs max.]	8,83 N max. [2 lbs max.]	
Release Force (R.F.)	-	1,47 N min. [0.33 lbs min.]	
Pretravel (P.T.)	30 mm max. [1.18 in max.]	1,5 mm max. [0.060 in max.]	
Overtravel (O.T.)	20 mm min. [0.788 in min.]	4 mm min. [0.158 in min.]	
Differential Travel (D.T.)	-	0,7 mm max. [0.028 in. max.]	
Product Type	Minature Limit Switches		
Ampere Rating	5.0 A / 0.4 A		
Supply Voltage	250 Vac max. / 125 Vdc max.		
Termination Type	Cable Gland		
Operating Temperature Range	-20 °C to 60 °C [-4 °F to140°F]		
Vibration	55 Hz at double amplitude of 1.5 mm		
Housing Material	Zinc Die-Cast / Plastic		
Shock	10 g max.		
Circuitry	1NC 1NO SPDT; Double Break		
Approvals	UL, C-UL, CE		
Sealed	Industrial		
UL File #	E150950		
Availability	North-America; Asia-Pacific		
Sealing	IP64		
Mechanical Life	up to 10 million operations		
Series Name	VL Series		

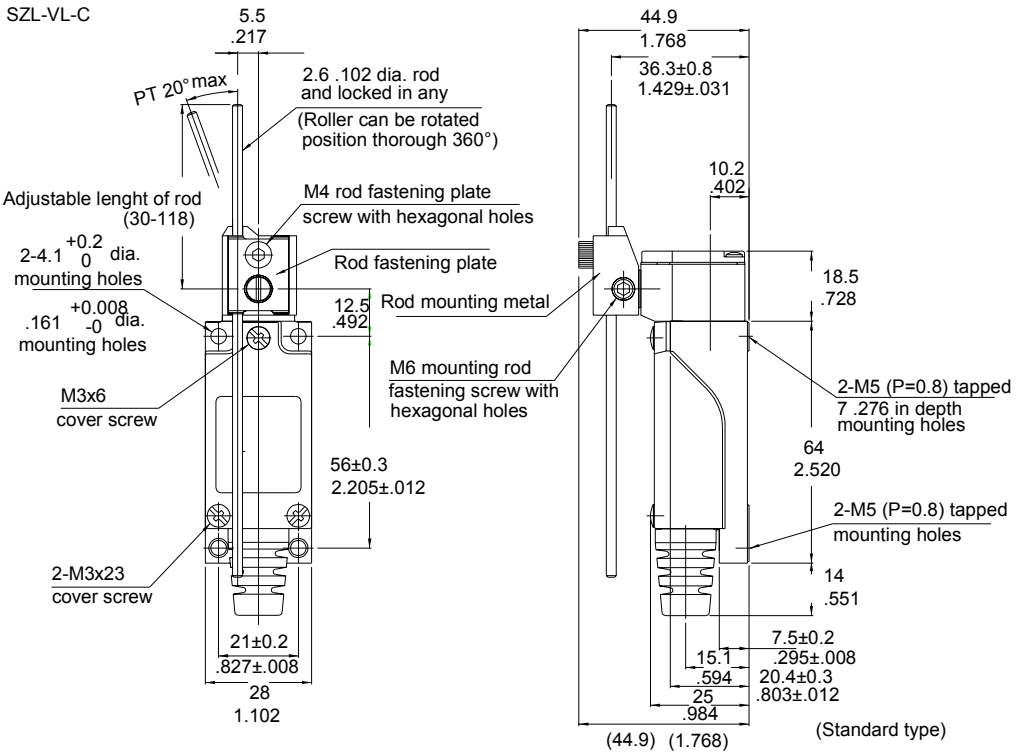
MOUNTING DIMENSIONS (For Reference Only)

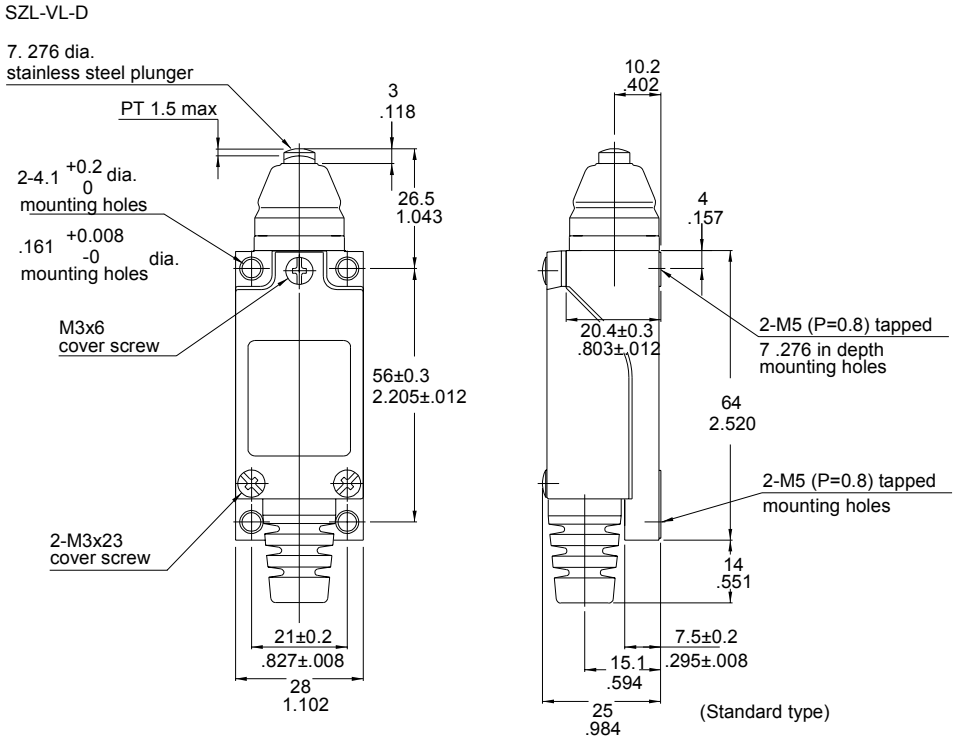
mm

in

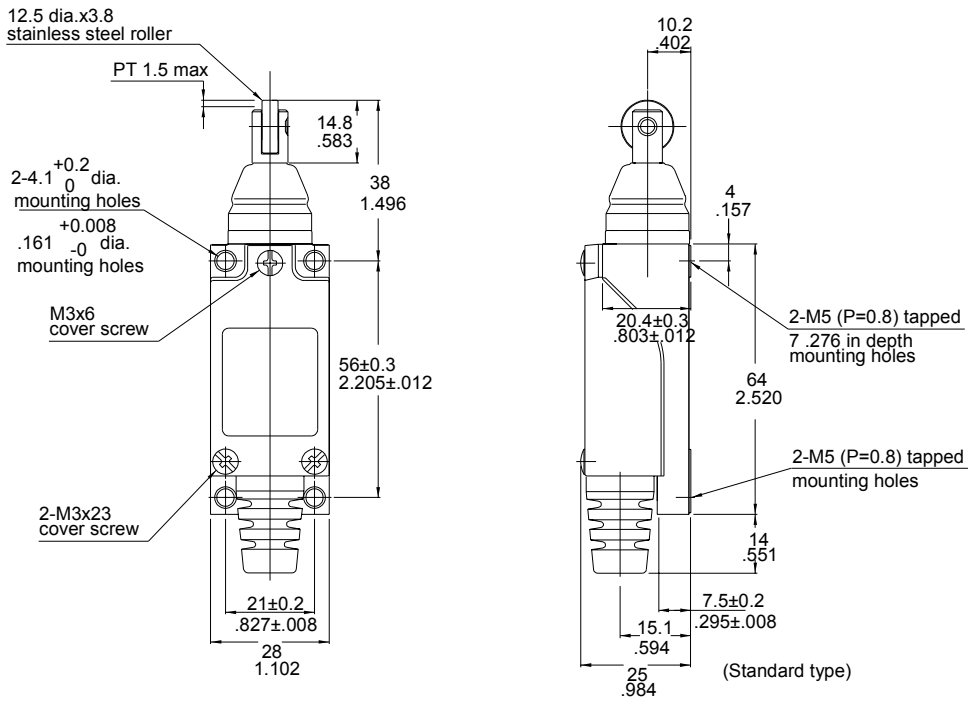




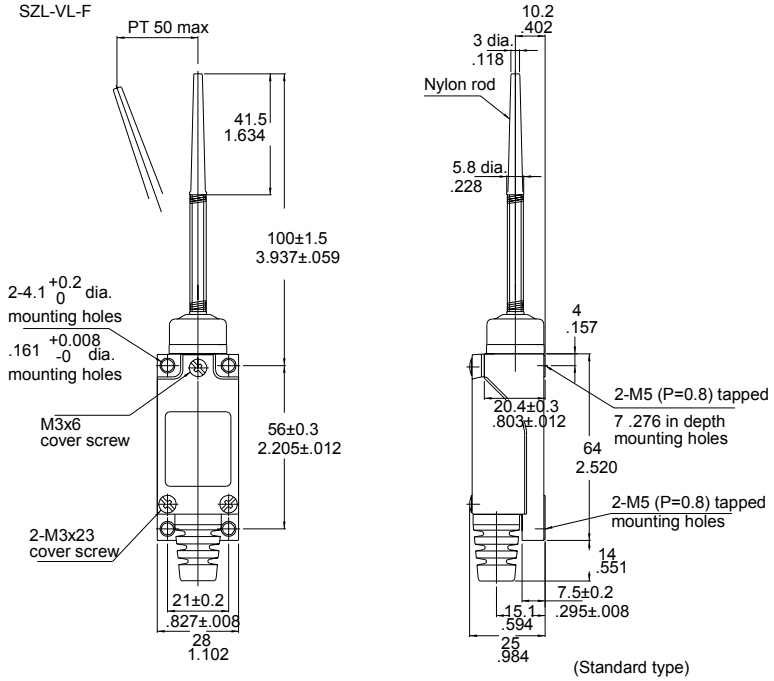

SZL-VL-C
5.5
.217
PT 20° max
2.6 .102 dia. rod
and locked in any
(Roller can be rotated
position thorough 360°)
Adjustable lenght of rod
(30-118)
M4 rod fastening plate
screw with hexagonal holes
2-4.1 +0.2 0 dia.
mounting holes
Rod fastening plate
.161 +0.008 -0 dia.
mounting holes
12.5
.492
Rod mounting metal
M6 mounting rod
fastening screw with
hexagonal holes
M3x6
cover screw
56±0.3
2.205±.012
2-M3x23
cover screw
21±0.2
.827±.008
28
1.102
44.9
1.768
36.3±0.8
1.429±.031
10.2
.402
18.5
.728
2-M5 (P=0.8) tapped
7 .276 in depth
mounting holes
64
2.520
2-M5 (P=0.8) tapped
mounting holes
14
.551
7.5±0.2
.295±.008
15.1
.594
20.4±0.3
.803±.012
25
.984
(44.9) (1.768)
(Standard type)


SZL-VL-D
7. 276 dia.
stainless steel plunger
PT 1.5 max
3
.118
2-4.1 +0.2 0 dia.
mounting holes
26.5
1.043
.161 +0.008 -0 dia.
mounting holes
M3x6
cover screw
56±0.3
2.205±.012
2-M3x23
cover screw
21±0.2
.827±.008
28
1.102
10.2
.402
4
.157
20.4±0.3
.803±.012
2-M5 (P=0.8) tapped
7 .276 in depth
mounting holes
64
2.520
2-M5 (P=0.8) tapped
mounting holes
14
.551
7.5±0.2
.295±.008
15.1
.594
25
.984
(Standard type)

SZL-VL-E



SZL-VL-F



General Purpose
Compact Limit Switches

VL Series

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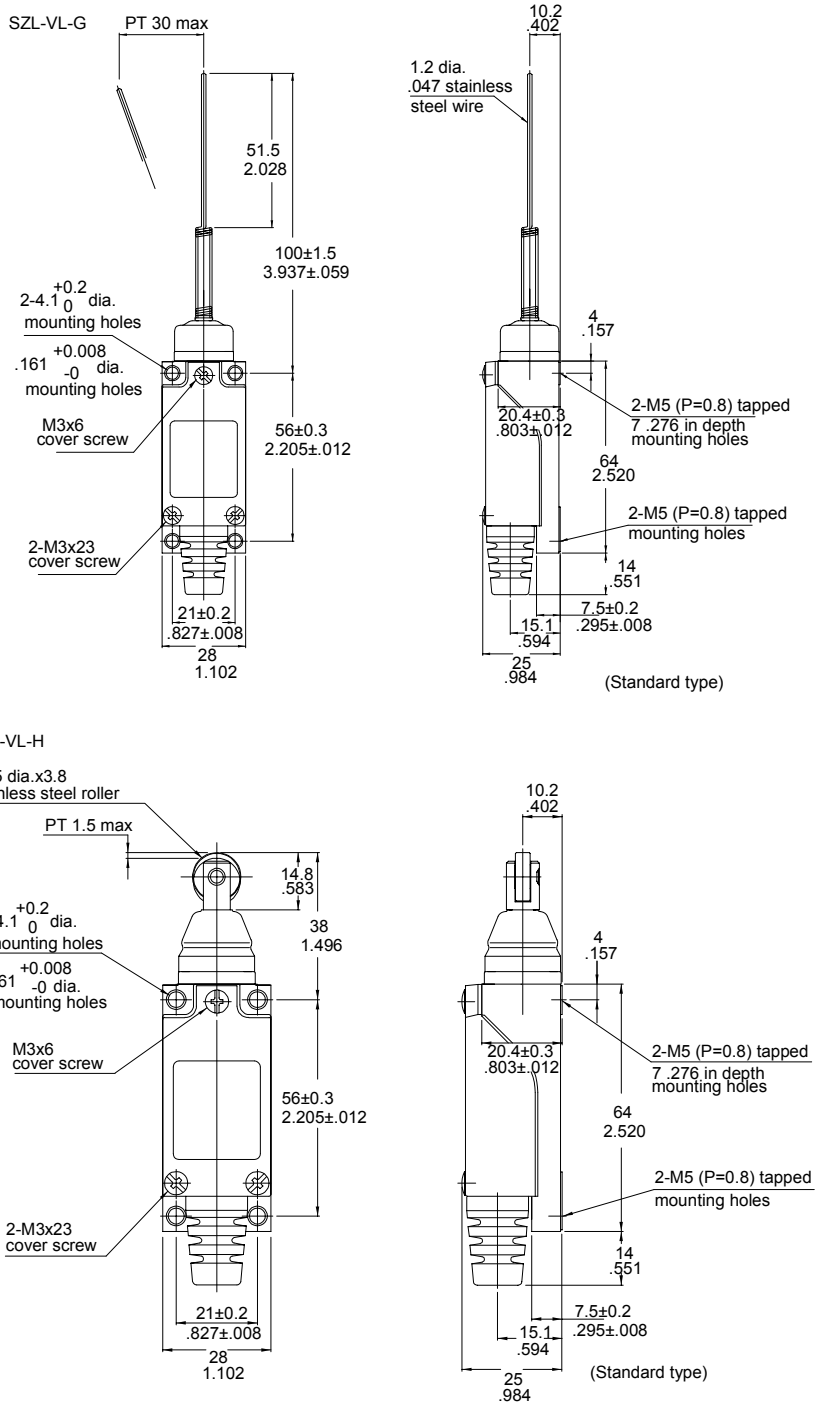

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