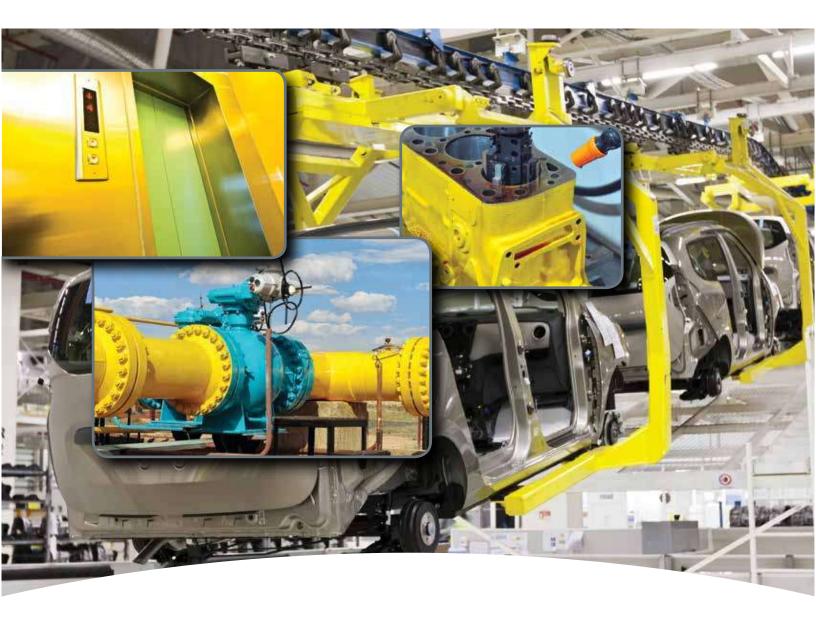
# **Honeywell**



MICRO SWITCH™
General Purpose Limit Switches
SZL-WL Series



## MICRO SWITCH™ SZL-WL Series General Purpose Limit Switches

MICRO SWITCH<sup>TM</sup> SZL-WL Series general purpose limit switches are cost effective switches that may be used in a wide range of applications from general purpose conveyors to heavy-duty machinery. Rugged and reliable, the SZL-WL Series switches are specially designed for world-wide use and supported by Honeywell's vast experience in serving industries around the globe.

High quality product offerings combined with Honeywell's global sales and service resources makes the SZL-WL Series the smart choice for industries whose goal is to minimize plant downtime and reduce overall maintenance costs.

### What makes our switches better?

- Small size and universal mounting footprint typically allows for use in constricted spaces and reduces replacement costs by providing interchangeability with similar style switches
- Wide variety of actuator heads and an assortment of actuators typically allows the SZL-WL Series to be applied in many types of applications
- IP67 construction often allows for use in dusty and dirty indoor and outdoor applications
- Mechanical service life of up to 10,000,000 operations promotes the durability required for use in many types of industries from factory floor to agriculture and/or machinery



# Features and Benefits

### **INDUSTRIAL GLOBAL DESIGN**

The SZL-WL Series is designed to the EN50041 mounting standard which promotes interchangability between other brands of limit switches.

### Robust and reliable.

### TWO CIRCUIT DOUBLE BREAK CONTACTS

The SZL-WL Series promotes reliable switching under industrial 10 amp current loads and typically allows end users the ability to control two circuits within one switch.

#### WIDE CHOICE OF ACTUATORS

Honeywell's SZL-WL Series offers side rotary, top and side plunger, and wobble stick style actuators that makes the switch reasonably adaptable to numerous types of applications.

### OIL TIGHT, WATER TIGHT, DUST TIGHT

IP67 sealing protects against dust and moisture, and allows the SZL-WL Series to be used in dirty and rugged environments found in both indoor and outdoor applications.

### Potential Applications



### **INDUSTRIAL**

- Counting and position sensing on conveyors and assembly lines
- Fixture and tooling position sensing on automated metal removing machines
- Position indication on electric valves on pipelines
- Position indication on dampers, fume hoods, and HVAC/R equipment
- Truck ramp position and elevator car position/leveling control



#### PRODUCT NOMENCLATURE

Figure 1. SZL-WL for Asia-Pacific Use Only

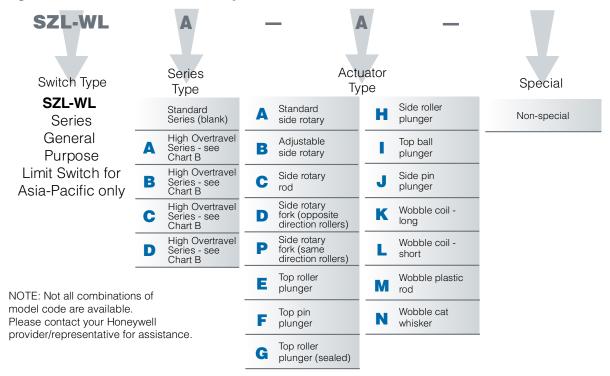


Figure 2. SZL-WL for North American Use Only

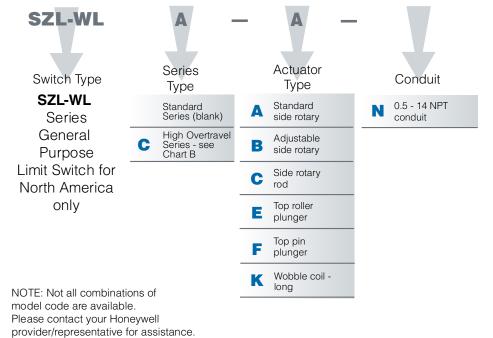


Table 1. Chart A • Standard Type

	WL-A	WL-B <sup>1</sup>	WL-C <sup>2</sup>	WL-D, P	WL-E	WL-F	WL-G
Pretravel	15° ±5°	15° ±5°	15° ±5°	50° ±5°	1,7 mm [0.07 in] max.	1,7 mm [0.07 in] max.	1,7 mm [0.07 in] max.
Differential Travel	12°	12°	12°	-	1 mm [0.04 in]	1 mm [0.04 in]	1 mm [0.04 in]
Overtravel	30°	30°	30°	35°	5,6 mm [0.22]	6,4 mm [0.25]	5,6 mm [0.22]
Total travel	40°	40°	40°	90°	_	_	-
Operating	0,51 Nm	0,51 Nm	0,195 Nm	0,447 Nm	26,67 N [6 lb]	26,67 N [6 lb]	16,67 N [3.75 lb]
torque	[4.5 in-lb]	[4.5 in-lb]	[1.72 in-lb]	[4.0 in-lb]	(force)	(force)	(force)

	WL-H	WL-I	WL-J	WL-K³	WL-L³	WL-M³	WL-N³
Pretravel	2,8 mm [0.11 in]	1,7 mm [0.07 in] max.	2,8 mm [0.11 in] max.	20 mm ±10 mm [0.79 in ±0.039 in]	20 mm ±10 mm [0.79 in ±0.039 in]	40 mm ±20 mm [1.57 in ±0.79 in]	40 mm ±20 mm [1.57 in ±0.79 in]
Differential travel	1 mm [0.04 in]	1 mm [0.04 in]	1 mm [0.04 in]	-	-	-	-
Overtravel	5,6 mm [0.22 in]	6,4 mm [0.25 in]	4,0 mm [0.16 in]	-	_	_	_
Total travel	8,4 mm [0.33 in]	9,2 mm [0.36 in]	5,7 mm [0.22 in]	-	-	-	-
Operating force max.	40,03 N [9 lb]	26,67 N [6 lb]	40,03 N [9 lb]	1,47 N [0.33 lb]	1,47 N [0.33 lb]	1,47 N [0.33 lb]	0,28 N [0.06 lb]

<sup>&</sup>lt;sup>1</sup> Operating characteristics of the WL-B are measured at the arm length of 38 mm [1.5 in]

Table 2. Chart B • Overtravel/High Precision Type

	WLA-A	WLB-A	WLA-B <sup>1</sup>	WLB-B <sup>1</sup>	WLA-C <sup>2</sup>	WLB-C <sup>2</sup>	WLC-A
Pretravel	18° ±4°	10° (-1°/+2°)	18° ±4°	10° (-1°/+2°)	18° ±4°	10° (-1°/+2°)	25° ±5°
Differential travel	10°	7°	10°	-	10°	7°	16°
Overtravel	55°	65°	55°	65°	55°	65°	60°
Total travel	80°	80°	80°	80°	80°	80°	90°
Operating	0,37 Nm	0,37 Nm	0,37 Nm	0,37 Nm	0,398 Nm	0,398 Nm	0,34 Nm
torque max.	[3.3 in-lb]	[3.3 in-lb]	[3.3 in-lb]	[3.3 in-lb]	[3.52 in-lb]	[3.52 in-lb]	[3.0 in-lb]

	WLC-B1	WLC-C <sup>2</sup>	WLD-A	WLD-B <sup>1</sup>	WLD-C <sup>2</sup>	WLE-A	WLE-B	WLE-C
Pretravel	25° ± 5°	25° ± 5°	20° max.	20° max.	20° max.	6° ±1°	5° (+2°/-0°)	5° (+2°/-0°)
Differential travel	16°	16°	10°	10°	10°	3°	3°	3°
Overtravel	60°	60°	70°	70°	70°	40°	40°	40°
Total travel	90°	90°	90°	90°	90°	40°	40°	40°
Operating	0,34 Nm	0,36 Nm	0,365 Nm	0,365 Nm	0,398 Nm	0,51 Nm	0,51 Nm	0,195 Nm
torque max.	[3.0 in-lb]	[3.16 in-lb]	[3.23 in-lb]	[3.23 in-lb]	[3.52 in-lb]	[4.5 in-lb]	[4.5 in-lb]	[1.72 in-lb]

<sup>&</sup>lt;sup>1</sup> Operating characteristics are measured at the arm length of 38 mm [1.5 in]

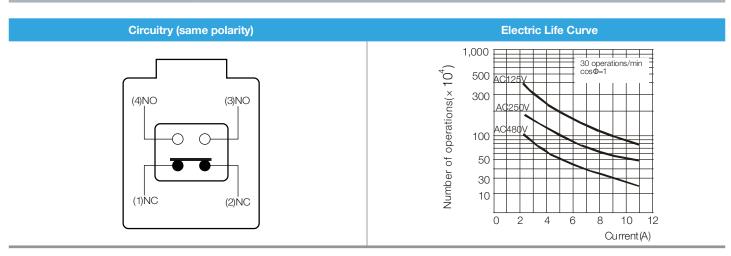
<sup>&</sup>lt;sup>2</sup> Operating characteristics of the WL-C are measured at the lever length of 140 mm [5.5 in]

<sup>&</sup>lt;sup>3</sup> Operating characteristics of these types are measured at the tip of the actuator

<sup>&</sup>lt;sup>2</sup> Operating characteristics are measured at the lever length of 140 mm [5.5 in]

Table 3. Specifications

Characteristic	Parameter Parame
Product type	Honeywell General Purpose Limit Switch
Actuators	side rotary, top roller plunger, top plunger, sealed top roller plunger, side roller plunger, side pin plunger, top ball plunger, wobble/cat whisker, wobble/plastic rod, wobble/coil spring
Circuitry	single pole double throw double break
Electrical	10 A
Housing material	aluminum die-cast
Housing type	industrial
Conduit	PF 1/2, 1/2 in-14 NPT
Sealing	IP67
Operating temperature	-10 °C to 80 °C [14 °F to 176 °F]
Mechanical life	10,000,000 operations
Agency approvals and standards	UL, CE, CSA
Sealed	Industrial



### **ORDER GUIDE/RECOMMENDED LISTINGS**

**Table 4. Product listings** 

O.T. • Operating torque O.F. • Operating force

P.T. • Pretravel

O.T. • Overtravel
D.T. • Differential travel

	Part Number	Actuation	Note	O.T. Nm [in-lb]	Bar chart	P.T. (max.)	О.Т.	D.T. (max.)	Conduit
	SZL-WL-A	side rotary standard	_	0,51 [4.5]	0° 20° 50° 1-2 3-4	20°	30°	12°	PF 1/2
	SZL-WL-A-N	lever, standard	_		0° 8° 50° 3-4 1-2	20	30	12	1/2 in NPT
	SZL-WLA-A	side rotary standard lever, high overtravel	_	0,37 [3.3]	0° 22° 77° 1-2 3-4 0° 12° 77° 3-4 1-2	22°	55°	10°	PF 1/2
	SZL-WLB-A	side rotary standard lever, high overtravel	_	0,37 [3.3]	0° 12° 77° 1-2 3-4 0°5° 77° 3-4 1-2	12°	65°	7°	PF 1/2
	SZL-WLC-A	side rotary standard		0,34	0° 30° 90° 1-2 3-4	000	60°	16°	PF 1/2
	SZL-WLC- A-N	lever, high overtravel	_		0° 14° 90° 3-4 1-2	30°			1/2 in NPT
	SZL-WLD-A	side rotary standard lever, high overtravel	_	0,37 [3.23]	0° 20° 90° 1-2 3-4 0° 10° 90° 3-4 1-2	20°	70°	10°	PF 1/2
	SZL-WLE-A	side rotary standard lever, high precision	1	0,51 [4.5]	0° 7° 47° 1-2 3-4 0°4° 47° 3-4 1-2	7°	40°	3°	PF 1/2

<sup>1.</sup> Operating characteristics are measured at the actuator arm length of 38 mm [1.5 in]

Table 4. Product listings, continued

O.T. • Operating torque O.F. • Operating force

P.T. • Pretravel

O.T. • Overtravel
D.T. • Differential travel

	Part Number	Actuation	Note	O.T. Nm	Bar chart	P.T. (max.)	O.T.	D.T. (max.)	Conduit
	SZL-WL-B	side rotary adjustable		[in-lb] 0,51	0° 20° 50° 1-2 3-4	20°	30°	12°	PF 1/2
	SZL-WL-B-N	lever, standard	1	[4.5]	0° 8° 50° 3-4 1-2	20°	30°	12°	1/2 in NPT
	SZL-WLA-B	side rotary adjustable lever, high overtravel	1	0,37 [3.3]	0° 22° 77° 1-2 3-4 0° 12° 77° 3-4 1-2	22°	55°	10°	PF 1/2
	SZL-WLB-B	side rotary adjustable lever, high overtravel	1	0,37 [3.3]	0° 12° 77° 1-2 3-4 0°5° 77° 3-4 1-2	12°	65°	7°	PF 1/2
	SZL-WLC-B	side rotary adjustable		0,34 [3.0]	0° 30° 90° 1-2 3-4	000		16°	PF 1/2
	SZL-WLC- B-N	lever, high overtravel	1		0° 14° 90° 3-4 1-2	30°	60°		1/2 in NPT
	SZL-WLD-B	side rotary adjustable lever, high overtravel	1	0,37 [3.23]	0° 20° 90° 1-2 3-4 0° 10° 90° 3-4	20°	70°	10°	PF 1/2
	SZL-WLE-B	side rotary adjustable lever, <b>high precision</b>	2	0,51 [4.5]	0° 5° 45° 1-2 3-4 0°2° 45° 3-4 1-2	5°	40°	3°	PF 1/2

### Notes:

Operating characteristics are measured at the actuator arm length of 38 mm [1.5 in]
 Operating characteristics are measured at the actuator arm length of 140 mm [5.5 in]

Table 4. Product listings, continued

O.T. • Operating torque O.F. • Operating force

P.T. • Pretravel

O.T. • Overtravel
D.T. • Differential travel

Part Number	Actuation	Note	O.T. Nm [in-lb]	Bar chart	P.T. (max.)	О.Т.	D.T. (max.)	Conduit
SZL-WL-C	side rotary rod adjust-	2	0,195	0° 20° 50° 1-2 3-4	20°	30°	12°	PF 1/2
SZL-WL-C-N	able, standard	2	[1.72]	0° 8° 50° 3-4 1-2	20	30	12	1/2 in NPT
SZL-WLA-C	side rotary rod adjust- able, high overtravel	2	0,398 [3.52]	0° 22° 77° 1-2 3-4 0° 12° 77° 3-4 1-2	22°	55°	10°	PF 1/2
SZL-WLB-C	side rotary rod adjust- able, high overtravel	2	0,398 [3.52]	0° 12° 77° 1-2 3-4 0°5° 77° 3-4 1-2	12°	65°	7°	PF 1/2
SZL-WLC-C	side rotary rod adjust-	2	0,38 [3.16]	0° 30° 70° 1-2 3-4	30°	40	16°	PF 1/2
SZL-WLC- C-N	able, high overtravel			0° 14° 70° 3-4 1-2				1/2 in NPT
SZL-WLD-C	side rotary rod adjust- able, high overtravel	2	0,398 [3.52]	0° 20° 90° 1-2 3-4 0° 10° 90° 3-4 1-2	20°	70°	10°	PF 1/2
SZL-WLE-C	Side rotary rod adjust- able, <b>high precision</b>	1	0,195 [1.72]	0° 5° 45° 1-2 3-4 0°2° 45° 3-4	5°	40°	3°	PF 1/2
SZL-WL-D SZL-WL-P	fork lock lever, op- posite direction rollers -D); same direction rollers (-P)		0,447 [4.0]	0° 55° 90° 1-2 3-4 0° 55° 90° 3-4 1-2	55°	35°	-	PF 1/2

<sup>1.</sup> Operating characteristics are measured at the actuator arm length of 38 mm [1.5 in]

<sup>2.</sup> Operating characteristics are measured at the actuator arm length of 140 mm [5.5 in]

Table 4. Product listings, continued

O.T. • Operating torque
O.F. • Operating force
P.T. • Pretravel

O.T. • Overtravel
D.T. • Differential travel

	Part Number	Actuation	Note	O.F. N [lb]	Bar chart	P.T. (max.)	О.Т.	D.T. (max.)	Conduit
A	SZL-WL-E	top roller plunger	_	26,67	1,7 7,3 0 [0.07] [0.29] 1-2	1,7 mm	5,6 mm	1 mm	PF 1/2
	SZL-WL-E-N	top roller pluriger	_	[6.0]	0,7' 7,3 0 [0,03] [0.29] 3-4 1-2	[0.07 in]	[0.22 in]	[0.04 in]	1/2 in NPT
	SZL-WL-F	top plunger	_	26,67	1,7 8,1 0 [0.07] [0.32] 1-2	1,7 mm	6,4mm	1 mm	PF 1/2
	SZL-WL-F-N	top planger		[6.0]	0,7 8,1 0 [0,03] [0.32] 3-4 1-2	[0.07 in]	[0.25 in]	[0.04 in]	1/2 in NPT
	SZL-WL-G	top roller plunger, sealed	-	16,67 [3.75]	1,7 7,3 [0.29] 1-2 3-4 0,7 7,3 [0.29] 3-4 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2	1,7 mm [0.07 in]	5,6 mm [0.22 in]	1 mm [0.04 in]	PF 1/2
	SZL-WL-H	side roller plunger	-	40,03 [9.0]	2,8 8,4 0 [0,11] [0.33] 1-2 3-4 1,8 8,4 0 [0,07] [0.33] 3-4 1-2	2,8 mm [0.11 in]	5,6 mm [0.22 in]	1 mm [0.04 in]	PF 1/2
	SZL-WL-I	top ball plunger	_	26,67 [6.0]	1,7 5,7 [0.22] 1-2 3-4 0,7 5,7 0 [0,03] [0.22] 3-4 1-2 4	1,7 mm [0.07 in]	4 mm [0.157 in]	1 mm [0.04 in]	PF 1/2
	SZL-WL-J	side plunger	-	40,03 [9.0]	2,8 9,2 0 [0.11] [0.36] 1-2 3-4 1,8 9,2 0 [0,07] [0.36] 3-4 1-2	2,8 mm [0.11 in]	6,4 mm [0.25 in]	1 mm [0.04 in]	PF 1/2

O.T. • Operating torque O.F. • Operating force

P.T. • Pretravel

O.T. • Overtravel
D.T. • Differential travel

Table 4. Product listings, continued

	Part Number	Actuation	Note	O.F. N [lb]	Bar chart	P.T. (max.)	О.Т.	D.T. (max.)	Conduit
1	SZL-WL-K	wobble-coil spring	0.4	1,47		20 mm ±10 mm			PF 1/2
	SZL-WL-K-N	Ø 6,5 mm [Ø 0.256 in]	3, 4	[0.33]		[0.79 in ±0.39 in]	_	_	1/2 in NPT
	SZL-WL-L	wobble-coil spring Ø 4,8 mm [Ø 0.189 in]	3, 4	1,47 [0.33]	-	20 mm ±10 mm [0.79 in ±0.39 in]	-	-	PF 1/2
	SZL-WL-M	wobble-plastic rod Ø 8,0 mm [Ø 0.315 in]	3, 4	1,47 [0.33]	_	40 mm ±20 mm [1.57 in ±0.79 in]	_	_	PF 1/2
	SZL-WL-N	wobble-steel wire Ø 1,0 mm [Ø 0.04 in]	3, 4	0,28 [0.06]	_	40 mm ±20 mm [1.57 in ±0.79 in]	_	-	PF 1/2

- 1. Operating characteristics are measured at the actuator arm length of 38 mm [1.5 in]
- 2. Operating characteristics are measured at the actuator arm length of 140 mm [5.5 in]
- 3. Operating characteristics are measured at the tip of the actuator
- 4. Operating force is measured from the tip of the wobble

### **DIMENSIONS** mm [in]

Figure 1. SZL-WL-A Ø 17,5 mm x 7 mm [Ø 0.69 in x 0.28 in] 59,0 mm [2.32 in] max. stainless steel roller 53,0 mm [2.09 in] 4 - M3.5 x 27,5 head mounting -13.1 mm [0.52 in] screw and spring washer -25,4 mm [1.00 in] -12,7 mm [0.50 in] M5 x 16 hexagor socket head bolts -4 - Ø 5,20 mm [0.21 in] mounting holes  $\mathfrak{D}$ Adjustable plate SZL-WLA-A 10A 125,250V AC 3 - M4 x 13 cover mounting screw 0.8A 125/0C 0.4A 250/0C 1/24P 125/AC 1HP 250/AC € ⊕ ⊕ ⊕ LABEL 5,0 mm [0.20 in KS B 0221 (PF 1/2) 4 - M6 x 1.0 30,2 mm [1.19 in] 29,2 mm [1.15 in] [0.19 in] 40,0 mm [1.57 in] 41,5 mm [1.63 in] max,

Figure 2. SZL-WL-B Ø 17,5 mm x 7 mm [Ø 0.69 in x 0.28 in] 67,0 mm [2.64 in] max. Adjustable range: 25 mm to 89 mm -[1.0 in to 3.5 in] 60,0 mm [2.36 in] -13,1 mm [0.52 in] head mounting screw and spring was -25,4 mm [1.00 in] - 12.7 mm [0.50 in] 25,4 mm 4 - Ø 5,20 mm [0.21 in] mounting holes mm [2.31 in] SZL-10A Adjustable plate LABEL 58,7 3 - M4 x 13 cover mounting screw Œ KS B 0221 (PF 1/2) 4 threads min. [0.19 in] 40,0 mm [1.57 in] 35,0 mm [1.38 in] 41.5 mm [1.63 in] max.

Figure 3. SZL-WL-C

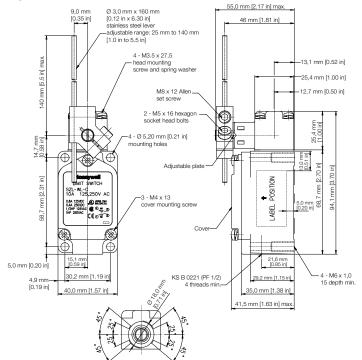
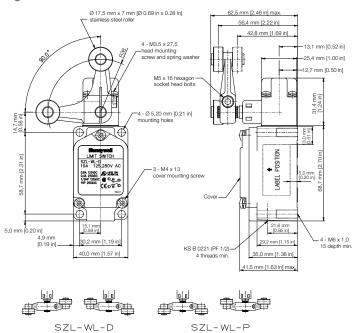


Figure 4. SZL-WL-D and SZL-WL-P



### **DIMENSIONS** mm [in]

Figure 5. SZL-VL-E 44,0 mm [1.79 in] operating position Ø 17,5 mm x 5 mm [Ø 0.69 in x 0.20 in] - stainless steel roller 12,7 mm [0.50 in] 45,4 mm [1.79 in] free positi 4 - M3.5 x 27,5 head mounting 0 screw and spring washer -4 - Ø 5,20 mm [0.21 in] mounting holes ◆ POSITION SZL-WL-E 10A 125,250V AC 0.8A 125VDC 0.4A 250VDC 1/2HP 125VAC 1HP 250VAC € 0 × 0 3 - M4 x 13 LABEL cover mounting screw 58,7 r Cover 5,0 mm [0.20 in] 4 - M6 x 1,0 30,2 mm [1.19 in] 29,2 mm [1.15 in] KS B 0221 (PF 1/2) 15 depth min. [0.19 in] 40,0 mm [1.57 in] 35,0 mm [1.38 in] 41,5 mm [1.63 in] max.

Figure 6. SZL-WL-F 4 - M3.5 x 27,5 head mounting 12,7 mm [0.50 in] screw and spring washer 4 - Ø 5,20 mm [0.21 in] 19,9 m mounting holes SZL-WL-F 10A 125 250V AC 3 - M4 x 13 0.8A 125WDC 0.4A 250WDC 1/2HP 125WAC 1HP 250WAC 58,7 5,0 mm (0.20 in 30,2 mm [1.19 in] 29,2 mm [1.15 in] 4 - M6 x 1.0 4,9 mm-[0.19 in] KS B 0221 (PF 1/2) 4 threads min. 40,0 mm [1.57 in] 35,0 mm [1.38 in] 41,5 mm [1.63 in] max.

Figure 7. SZL-WL-G Figure 8. SZL-WL-H \_13,1 mm [0.52 in] 44,0 mm [1.79 in] operating 54,2 mm [2.13 in] operating position Ø 11,2 mm x 4,9 mm [Ø 0.44 in x 0.19 in] 12,7 mm [0.50 in] position 55,7 mm [2.19 in] 4 - M3.5 x 27,5 head mounting screw and spring washer 4 - M3.5 x 10,0 head mounting 13,1 mm [0.52 in] screw and spring washer mm [1.79 in] free 25,4 mm [1.00 in] 25,4 mm [1.00 in max. -12.7 mm [0.50 in] 4 - Ø 5,20 mm [0.21 in] \*25.0 mounting holes 4 - Ø 5.20 mm [0.21 in] mounting holes M mm [2.31 in] SZL-WL-G 10A 125,250V AC ◆ So 0.8A 125/0C 0.4A 250/0C 1/2#P 125/AC 1HP 250/AC € 0 16 0 3 - M4 x 13 LABEL SZL-WL-H 10A 125,250V AC cover mounting screw 771 21,6 mm [0.85 in] 5,0 mm [0.20 in] 30,2 mm [1.19 in] 29,2 mm [1.15 in] 21,6 mm [0.85 in] KS B 0221 (PF 1/2) 15 depth min. 5.0 mm [0.20 in] [0.19 in] 40,0 mm [1.57 in] 35,0 mm [1.38 in] 30,2 mm [1.19 in KS B 0221 (PF 1/2) 41,5 mm [1.63 in] max 35,0 mm [1.38 in] 40,0 mm [1.57 in] 4 threads min. 41,5 mm [1.63 in] max

### **DIMENSIONS** mm [in]

Figure 9. SZL-WL-I

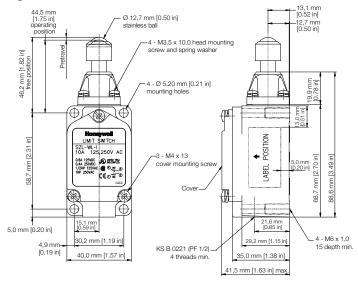


Figure 10. SZL-WL-J

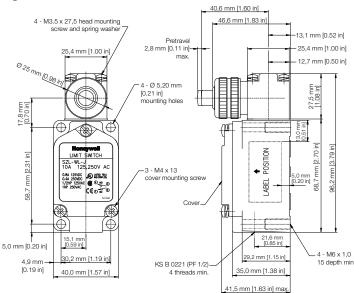


Figure 11. SZL-WL-K

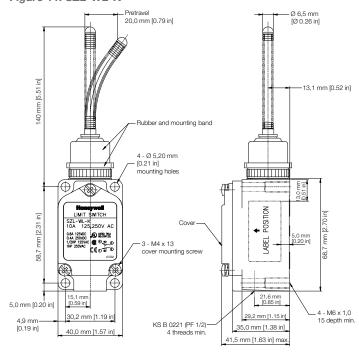
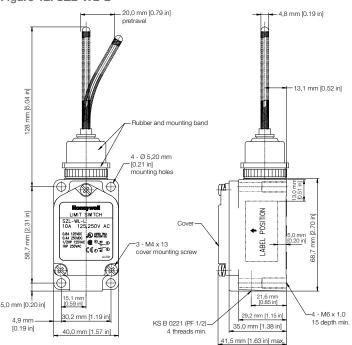


Figure 12. SZL-WL-L

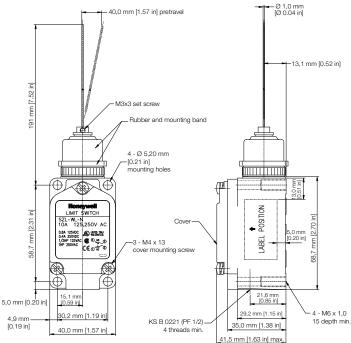


### **DIMENSIONS** mm [in]

Figure 13. SZL-WL-M

-13,1 mm [0.52 in] 26 mm -[1.02 in] Rubber and mounting band 4 - Ø 5,20 mm [0.21 in] mounting holes ♣ POSITION SZL-10A WL-M 125,250V AC 0.8A 125VDC 0.4A 250VDC 1/2HP 125VAC 1HP 250VAC CEONC -3 - M4 x 13 ABEL cover mounting screw 21,6 mm [0.85 in] 5,0 mm [0.20 in] 29.2 mm [1.15 in] 15 depth min. KS B 0221 (PF 1/2)-5,0 mm [1.38 in] 40,0 mm [1.57 in] 41,5 mm [1.63 in] max.

Figure 14. SZL-WL-N

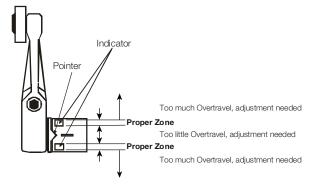


### **SET POSITION INDICATOR**

#### **Proper Operation Zone**

- The two convex indicators on the shaft housing show the operating zones for proper operation, thereby, simplifying installation and maintenance.
- Too much over-travel may cause shortened mechanical life due to possible damage to the switch mechanism.

Figure 15. Side Rotary Proper Operation Zone



### **MOUNTING DIMENSIONS**

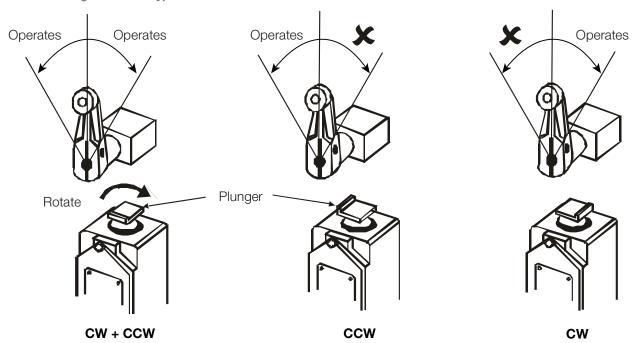
Figure 16. Surface Mount Figure 17. Through-Hole Mount Figure 18. Rear Mount long mounting screw (M5 x 50) long mounting screw (M5 x 50) short mounting screw(M6) mounting nut(M5) washer (Ø5) washer(Ø5) 4 - Ø 5,2 mm ±0,2 mm 4 - Ø 6,2 mm ±0,2 mm  $\emptyset$  0.20 in ±0.008 in] [4 - Ø 0.20 in ±0.008 in] - Ø 0.24 in ±0.008 in] |58,7 mm±0,2 mm| [2.31 in ±0.008 in] 58,7 mm±0,2 mm [2.31 in ±0.008 in] [2.31 in ±0.008 i .mm ±0,2 30,2mm ±0,2 mm [1.19 in ±0.008 mm] 30,2 mm ±0,2 mm  $30,2 \text{mm} \pm 0,2 \text{mm}$  $[1.19 \text{ in } \pm 0.008 \text{ mm}]$ [1.19 in ±0.008 mm]

### **ADJUSTABLE OPERATING CHARACTERISTICS**

### Standard/High Precision Series

• All side rotary switches of Standard and High Precision models can be set to actuate on one side only. Clockwise and counterclockwise mode is available by rotating the plunger inside the operating head as shown below.

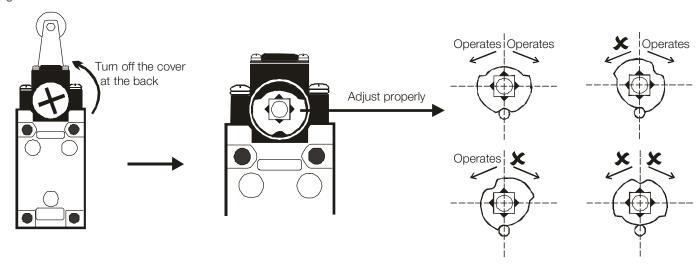
Figure 19. Standard/High Precision Type Switches



### **OVERTRAVEL "D" SERIES**

 The Overtravel "D" Series switches can be set to one side actuation mode by rotating the cam located inside the operating head as shown below.

Figure 20. Overtravel "D" Series



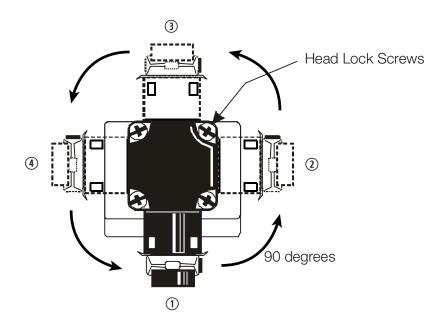
### **OPERATING HEAD DIRECTION CHANGE**

#### 90° Incremental Rotation

• Most SZL-WL -D, P, E, G, H, and J Series switches allow for the operating head to be rotated to any of the four positions indicated below. Loosen the four head lock screws and rotate the head to the desired position.

Note\* The head of the Overtravel "D" Series can be set ONLY to directions 1 and 3.

Figure 21. SZL-WL Head Rotation



#### **CABLES**

#### **Product Nomenclature**

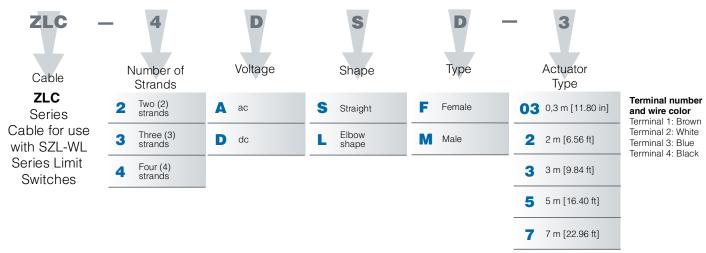


Figure 22. ZLC-4DLF-\_\_

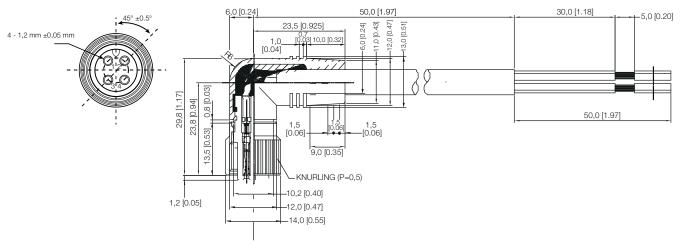


Figure 23. ZLC-4DSF-\_\_

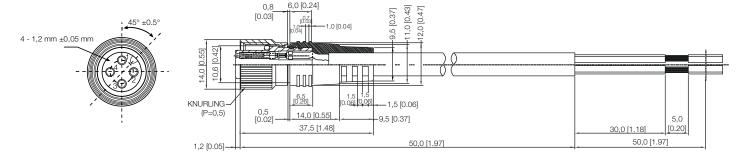
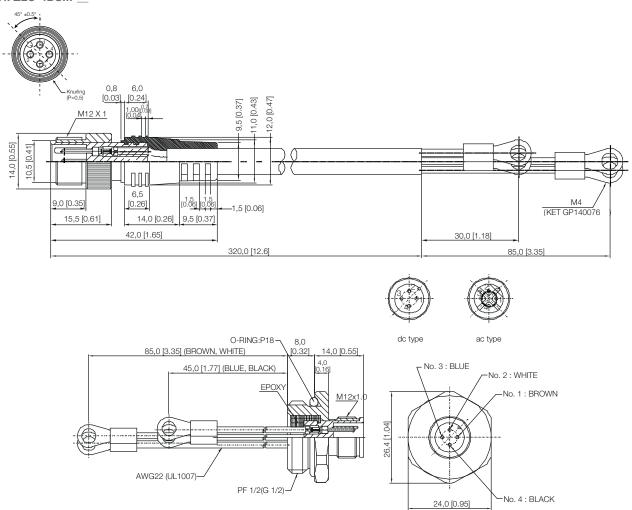


Figure 24. ZLC-4DSM-\_



**NOTE:** Receptacle required for using cables. Order part number ZLC-4DRM-85.

### **SEAL CONNECTOR**

**Product Nomenclature** 

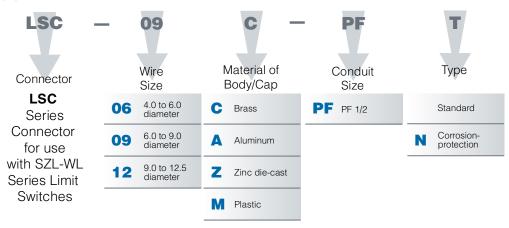
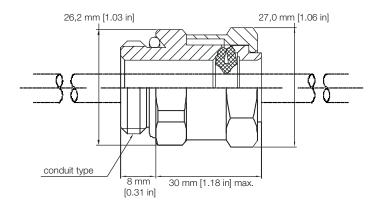


Figure 25. LSC-09C-PFT



#### ADDITIONAL INFORMATION

The following associated literature is available on the Web at sensing.honeywell.com:

- Product installation instructions
- Product range guide
- Product nomenclature tree
- Product application-specific information
  - Application Note: Application in Injection Molding Machine (IJM)

### This Honeywell datasheet supports the following MICRO SWITCH™ SZL-WL Series listings:

### **A** WARNING PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

### WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

#### WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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Sensing and Control Honeywell 1985 Douglas Drive North Golden Valley, MN 55422

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