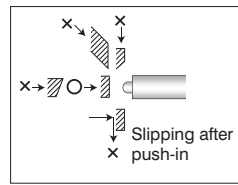


Precision Limit Switches

90-Degree Straight Touch Limit Switches

- Slim design
- 90-degree cable orientation
- Long-stroke models available
- 5 micron (μm) repeat accuracy
- Stainless steel housing
- Metal bearing
- Straight-touch and straight needle touch available

90-Degree Straight Touch



O indicates correct target approach and orientation.

X indicates approach and orientation that should be avoided.

90-Degree Straight Touch Limit Switches Selection Chart

Part Number	Price	Drawing Link	Actuator/ Head Type*	Barrel Type	Barrel Diameter/Thread*	Stroke	Switching Output	Contact Force	Connection Type
90-Degree Straight Touch									
CS065A-LR		PDF	Ø 2mm (0.079 in) plunger SR 1.5 mm (0.059 in)	Threaded	M6x0.5	2.8 mm (0.110 in)	N.O.	1N	3m (9.84 ft) cable
CS067A-BLR		PDF	Ø 2mm (0.079 in) plunger Ø 4mm (0.016 in) flat	Threaded	M6x0.75	2.8 mm (0.110 in)	N.O.	1N	3m (9.84 ft) cable
CS067A-LR		PDF	Ø 2mm (0.079 in) plunger SR 1.5 mm (0.059 in)	Threaded	M6x0.75	2.8 mm (0.110 in)	N.O.	1N	3m (9.84 ft) cable
CS067B-LR		PDF	Ø 2mm (0.079 in) plunger SR 1.5 mm (0.059 in)	Threaded	M6x0.75	2.8 mm (0.110 in)	N.C.	1N	3m (9.84 ft) cable
CS087A-LR		PDF	Ø 3.5 mm (0.138 in) plunger SR 3 mm (0.118 in)	Threaded	M8x0.5	2.8 mm (0.110 in)	N.O.	1N	3m (9.84 ft) cable
CSJ055A-LR		PDF	Ø 2mm (0.079 in) plunger SR 1.5 mm (0.059 in)	Threaded	M5x0.5	2.8 mm (0.110 in)	N.O.	1N	3m (9.84 ft) cable
CSJS50A-LR		PDF	Ø 2mm (0.079 in) plunger SR 1.5 mm (0.059 in)	Smooth	Ø 5	2.8 mm (0.110 in)	N.O.	1N	3m (9.84 ft) cable
CSK087A-LR		PDF	Ø 3.5 mm (0.138 in) plunger SR 3 mm (0.118 in)	Threaded	M8x0.75	5 mm (0.197 in)	N.O.	1N	3m (9.84 ft) cable
CSK087B-LR		PDF	Ø 3.5 mm (0.138 in) plunger SR 3 mm (0.118 in)	Threaded	M8x0.75	5 mm (0.197 in)	N.C.	1N	3m (9.84 ft) cable

* Ø = diameter, SR = surface radius



CS065A-LR



CS067A-BLR



CS067A-LR



CS067B-LR



CS087A-LR



CSJ055A-LR



CSJS50A-LR



CSK087A-LR



CSK087B-LR

Precision Limit Switches

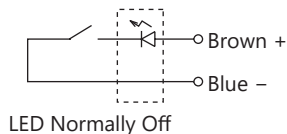
90-Degree Straight Touch Limit Switches

90-Degree Straight Touch Limit Switches Specifications			
Series	CS	CSJ	CSK
Environmental			
Degree of Protection	IP65		
Temperature Range	Operating: 0–80°C (32–176°F) (Ice-free)		
Mechanical Ratings			
Enclosure Material	Stainless Steel		
Pretravel	0.3 mm		
Torque (for nuts on threaded barrels, set screws on smooth barrels)	4 N•m (2.95 lb•ft)	2 N•m (1.48 lb•ft)	7 N•m (5.16 lb•ft)
Oscillation	10–55Hz total amplitude 1.5 for X, Y, Z each direction		
Impact	300 m/s ² for X, Y, Z each direction		
Repeat Accuracy	5 micron (µm)		
Recommended Minimum Operating Speed	10 mm/minute		
Electrical Ratings			
Contact Life	10 million operations		
Contact Voltage	5–24VDC		
Steady Current Rating	10mA or less		
Max In-rush Current Rating	10mA (limit current to protect LED indicator)		
Connection Type	Cable: 3m (9.84 ft), oil resistant, Ø2.8/2 cores, tensile strength 30N (6.74 lbf), minimum bending R7, 2-26AWG		
Indicating	-L: LED indicator (mounted in cable 120mm from the switch)		

* At operating speed 50-200 mm/minute. Operating speed slower than 10 mm/min is not recommended.

Circuit Diagrams

Normally open (N.O.)



Normally closed (N.C.)

