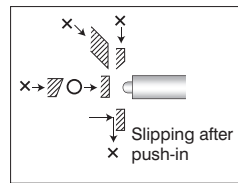


Precision Limit Switches

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	\$67.00	PDF	\varnothing 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	\$67.00	PDF	\varnothing 2mm [0.079 in] plunger \varnothing 4mm [0.016 in] flat	Threaded	M6x0.75	2.8 mm [0.110 in]	N.O.	1N	
CS067A-LR	\$65.00	PDF	\varnothing 2mm [0.079 in] plunger SR 1.5 mm [0.059 in]	Threaded	M6x0.75	2.8 mm [0.110 in]	N.O.	1N	
CS067B-LR	\$65.00	PDF	\varnothing 2mm [0.079 in] plunger SR 1.5 mm [0.059 in]	Threaded	M6x0.75	2.8 mm [0.110 in]	N.C.	1N	
CS087A-LR	\$65.00	PDF	\varnothing 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	
CSJ055A-LR	\$59.00	PDF	\varnothing 2mm [0.079 in] plunger SR 1.5 mm [0.059 in]	Threaded	M5x0.5	2.8 mm [0.110 in]	N.O.	1N	
CSJS50A-LR	\$59.00	PDF	\varnothing 2mm [0.079 in] plunger SR 1.5 mm [0.059 in]	Smooth	\varnothing 5	2.8 mm [0.110 in]	N.O.	1N	
CSK087A-LR	\$64.00	PDF	\varnothing 3.5 mm [0.138 in] plunger SR 3 mm [0.118 in]	Threaded	M8x0.75	5 mm [0.197 in]	N.O.	1N	
CSK087B-LR	\$64.00	PDF	\varnothing 3.5 mm [0.138 in] plunger SR 3 mm [0.118 in]	Threaded	M8x0.75	5 mm [0.197 in]	N.C.	1N	

* \varnothing = 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

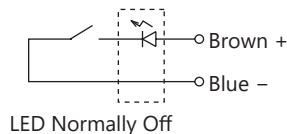
90-Degree Straight Touch Limit Switches

90-Degree Straight Touch Limit Switches Specifications			
Series	CS	CSJ	CSK
Environmental			
Degree of Protection	IP65		
Temperature Range	Operating: 0 to 80°C [32 to 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.)

