



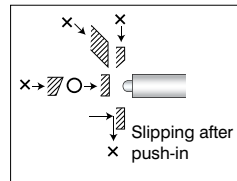
Precision Limit Switches

90-Degree Straight Touch Limit Switches

Features

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

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
CSS60A-LR	\$-6bol:	PDF	Ø 2mm plunger [0.079in] SR 1.5mm [0.059in]	Smooth	Ø 6mm	2.8mm [0.110in]	(1) N.O.	1N	Cable 3m [9.84ft]
CS065A-LR	\$45ho:	PDF		Threaded	M6x0.5		(1) N.O.		
CS067A-BLR	\$45he:	PDF	Ø 2mm plunger [0.079in] Ø 4.5mm flat [0.1.77in]		M6x0.75		(1) N.O.		
CS067A-LR	\$.45hf:	PDF	Ø 2mm plunger [0.079in] SR 1.5mm [0.059in]				(1) N.O.		
CS067B-LR	\$45hg:	PDF	M8x0.75		(1) N.C.				
CS087A-LR	\$45hh:	PDF			Ø 3.5mm plunger [0.138in] SR 3 mm [0.118in]		(1) N.O.		
CSJ055A-LR	\$-45hi:	PDF	Ø 2mm plunger [0.079in] SR 1.5 mm [0.059in]	M5x0.5	(1) N.O.				
CSJS50A-LR	\$45hp:	PDF	Smooth	Ø 5mm	(1) N.O.				
CSK087A-LR	\$45hq:	PDF	Ø 3.5mm plunger [0.138in] SR 3 mm [0.118in]	Threaded	M8x0.75	5mm [0.197in]	(1) N.O.		
CSK087B-LR	\$45hs:	PDF					(1) N.C.		

* Ø = diameter, SR = surface radius



[CSS60A-LR](#)



[CS065A-LR](#)



[CS067A-BLR](#)



[CS067A-LR](#)



[CS067B-LR](#)



[CS087A-LR](#)



[CSJ055A-LR](#)



[CSJS50A-LR](#)



[CSK087A-LR](#)



[CSK087B-LR](#)



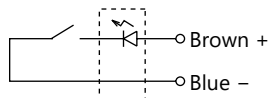
Precision Limit Switches

90-Degree Straight Touch Limit Switches Specifications				
Series	CS	CSS	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]	N/A	2 N•m [1.48 lb•ft]	7 N•m [5.16 lb•ft]
Vibration	10–55Hz total amplitude 1.5 for X, Y, Z each direction			
Shock	300 m/s² for X, Y, Z each direction			
Repeat Accuracy	5 micron (µm) *			
Recommended Minimum Operating Speed	50mm (1.96in)/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.

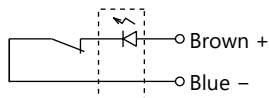
Circuit Diagrams

Normally open (N.O.)



LED Normally Off

Normally closed (N.C.)



LED Normally On