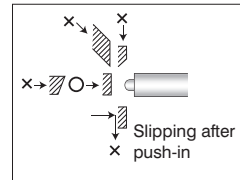


Precision Limit Switches

Precision Mini Straight Touch Limit Switches

- Mini size suitable for machines required to be small and for narrow installation space.
- Stroke length (1.5 mm)
- 3 micron (µm) repeat accuracy
- Stainless steel housing
- Metal bearing

Precision Mini Touch



O indicates correct target approach and orientation.

X indicates approach and orientation that should be avoided.

Precision Mini 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
Precision Mini									
CSM105WA	\$48.50	PDF	Ø 3.5mm plunger	Threaded	M10×0.5	1.5 mm	N.O.	1N	0.5 m (1.64 ft) core wire
CSMP105WA	\$51.00	PDF	2mm plunger with boot/ SR 2.5mm	Threaded	M10×0.5	1.5 mm	N.O.	1N	0.5 m (1.64 ft) core wire
CSM105CA-L	\$52.00	PDF	Ø 3.5mm plunger	Threaded	M10×0.5	1.5 mm	N.O.	1N	2m (6.56 ft) cable
CSMP105CA-L	\$56.00	PDF	2mm plunger with boot	Threaded	M10×0.5	1.5 mm	N.O.	1N	2m (6.56 ft) cable

* Ø = diameter, SR = surface radius

-L: LED indicator (mounted in cable 120mm from the switch)



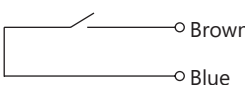
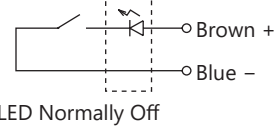
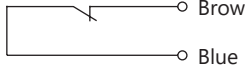
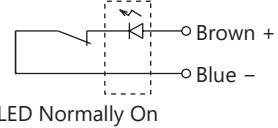
Precision Limit Switches

Precision Mini Touch Limit Switches

Precision Mini Touch Limit Switches Specifications		
Type	Precision Angled	Precision Mini
Series	CSM	CSMP
Environmental		
Degree of Protection	IP65	IP67
Temperature Range	Operating: 0–80°C (32–176°F) (Ice-free)	
Mechanical Ratings		
Enclosure Material	303 Stainless Steel	
Pretravel	0.3 mm	
Torque (for nuts on threaded barrels, set screws on smooth barrels)	8 N•m (5.901 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	Both On–Off, Off–On: 0.003 mm*	
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	Core wire cable, 0.5 m (x2), oil resistant, Ø 0.6, tensile strength 15N, Cable: 2m, oil resistant Ø2.8/2 cores, tensile strength 30N (6.74 lbf), 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

Without LED	With LED
<p>Normally open (N.O.)</p> 	<p>Normally open (N.O.)</p>  <p>LED Normally Off</p>
<p>Normally closed (N.C.)</p> 	<p>Normally closed (N.C.)</p>  <p>LED Normally On</p>