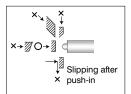


### **Precision Mini Straight Touch Limit Switches**

#### **Features**

- Mini size suitable for machines required to be small and for narrow installation space
- Stroke length (1.5mm)
- 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 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
CSM105CA	\$6bon:	PDF	Ø 3.5mm plunger SR 2.5mm	Threaded	M10×0.5	1.5mm	(1) N.O.	1N	Cable 2m [6.56ft]
CSM105WA	\$2bx5:	PDF	Ø 3.5mm plunger SR 2.5mm	Threaded	M10×0.5	1.5mm	(1) N.O.	1N	Core wire 0.5m [1.64ft]
CSMP105WA	\$2bx6:	PDF	2mm plunger with boot SR 2.5mm	Threaded	M10×0.5	1.5mm	(1) N.O.	1N	Core wire 0.5m [1.64ft]
CSM105CA-L	\$45hu:	PDF	Ø 3.5mm plunger SR 2.5mm	Threaded	M10×0.5	1.5mm	(1) N.O.	1N	Cable 2m [6.56ft]
CSMP105CA-L	\$45hv:	PDF	2mm plunger with boot SR 2.5mm	Threaded	M10×0.5	1.5mm	(1) N.O.	1N	Cable 2m [6.56ft]

<sup>\*</sup> Ø = diameter, SR = surface radius

<sup>-</sup>L: LED indicator (mounted in cable 120mm from the switch)





CSM105CA-L



CSMP105CA-L

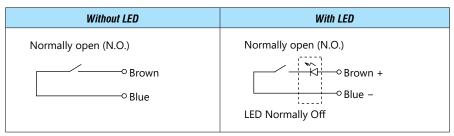


# METROL Precision Limit Switches

Precision Mini Straight Touch Limit Switches Specifications							
Туре	Precision Angled	Precision Mini					
Series	CSM	CSMP					
Environmental							
Degree of Protection	IP65	IP67					
Temperature Range	Operating: 0 to 80°C [32 to 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]						
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	Both On–Off, Off–On: 0.003 mm*						
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	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)						

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

## **Circuit Diagrams**



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