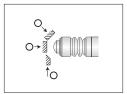
Precision Limit Switches

Precision Angled and Mini Touch Limit Switches

- Mini size suitable for machines required to be small and for narrow installation space.
- Stroke length (1.5 mm)
- 3 and 5 micron (µm) repeat accuracy
- · Stainless steel housing
- · Metal bearing

Angled/Sliding Touch



O indicates correct target approach and orientation.

Đ indicates approach and orientation that should be avoided.

Precision 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	Photo
Precision Angled										
CSHP085A-L	\$158.00	PDF	Ø 4.7 mm	Threaded	M8×0.5	2.8 mm	N.O.	1N	Cable, 2m length	А
CSHP085B-L	\$158.00	PDF	SR 3mm				N.C.			
Precision Mini										
CSM105WA	\$57.00	PDF	Ø 3.5 mm plunger		M10×0.5	1.5 mm	N.O.	1N	Core wire - 0.5 m length	В
CSMP105WA	\$60.00	PDF	2mm plunger with boot/ SR 2.5 mm	Threaded						С

^{*} Ø = diameter, SR = surface radius

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





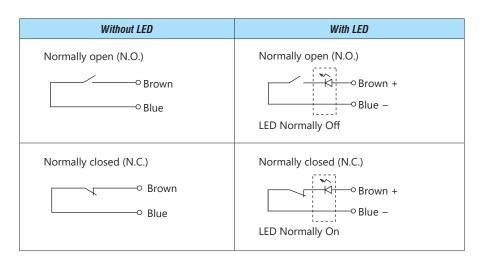


Precision Limit Switches

Precision Touch Limit Switches Specifications								
Туре	Precision Angled	Precision Mini						
Series	СЅНР	CSM						
Environmental								
Degree of Protection	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)	4 N•m	8 N•m						
Oscillation	10-55Hz total amplitude 1.5 for X, Y, Z each direction							
Impact	300 m/s² for X, Y, Z each direction							
Repeat Accuracy	Both On-Off, Off-On: 0.005 mm*	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	Cable: 3m (2m for CSHP series) Oil resistant Ø2.8/2 cores, Tensile strength 30N, minimum bending R7	Core wire cable, 0.5 m (x2) Oil resistant Ø0.6 Tensile strength 15W						
Indicating	-L: LED indicator (mounted in cable 120mm from the switch)	NA						

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

Circuit Diagrams



www.automationdirect.com Limit Switches tLSW-36