

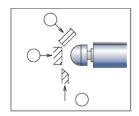
# METROL Precision Limit Switches

## **Sliding Angled Offset Touch Limit Switches**

### **Features**

- Metal and plastic hemisphere actuators
- 5 micron (µm) repeat accuracy
- Stainless steel housing

#### **Sliding Angled Offset Touch**



O indicates correct target approach and orientation.

Sliding Angled Offset 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
CSHP085A-L	\$158.00	<u>PDF</u>	Ø 4.7mm plunger SR 3mm	Threaded	M8×0.5	2.8mm [0.110in]	(1) N.O.	1N	Cable 2m [6.56 ft]
CSHP085B-L	\$158.00	<u>PDF</u>	Ø 4.7mm plunger SR 3mm	Threaded	M8×0.5		(1) N.C.	1N	
<u>CSH121A-A</u>	\$79.00	<u>PDF</u>	Ø 10mm hemisphere SR 5mm	Threaded	M12x1		(1) N.O.	1.5N	
CSH121A-AL	\$78.00	<u>PDF</u>	Ø 10mm hemisphere SR 5mm	Threaded	M12x1		(1) N.O.	1.5N	
CSH121B-AL	\$81.00	<u>PDF</u>	Ø 10mm hemisphere SR 5mm	Threaded	M12x1		(1) N.C.	1.5N	
CSH121A-APL	\$90.00	<u>PDF</u>	Ø 10mm hemisphere SR 5mm plastic	Threaded	M12x1		(1) N.O.	1.5N	
CSH121B-APL	\$90.00	<u>PDF</u>	Ø 10mm hemisphere SR 5mm plastic	Threaded	M12x1		(1) N.C.	1.5N	

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



CSHP085B-L



**CSH121A-A** 



CSH121A-AL



CSH121B-AL



CSH121A-APL



CSH121B-APL

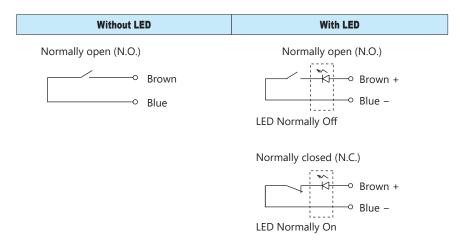


## METROL Precision Limit Switches

Sliding Angled Offset Touch Limit Switches Specifications								
Series	СЅНР	сѕн						
Environmental								
Degree of Protection	IP67	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]	12 N•m [8.85 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	0.005mm (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	ent Rating 10mA or less							
Max In-rush Current Rating	10mA (limit current to protect LED indicator)							
Connection Type	Cable: 2m [6.56ft] , 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)							

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

## **Circuit Diagrams**



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