

Inductive Proximity Sensor

Sensing Distance (Sn)

The sensing distance of the inductive proximity sensor varies with different target materials. The sensing distance of inductive sensor on this catalog use a steel target. The sensing distance for other materials can be calculated by multiply a correction factor shown on the table below:

Material	Attenuation coefficient					
Steel	1					
Stainless steel	0. 85					
Aluminum	0. 4					
Brass	0. 4					
Copper	0.3					

The sensing distance will also vary with different size and shape of the target. Square target block will result in a longer sensing distance than a round one. Bigger target will have a longer sensing distance.

None: Operating frequency of the inductive proximity switch is measured at 1/2 Sn.

- Repeat Accuracy (R)
- Ratio of the difference value between any of the two measurements and distance of checking (Sn).
- Return Difference (H)

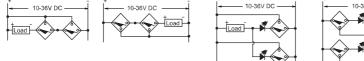
Distance between operating point when target metal moves close to proximity switch and reset point when target metal moves away from the proximity.

Wiring Diagram:

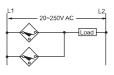
	Leadwire N.O.	Leadwire N.C.	Quick Connect N.O.	Quick Connect N.C.		
NPN three-wire DC	10-36V DC brown blue black	10-36V DC brown black	10-36V/DC +0	10-36V/BC		
PNP three-wire DC	brown 10-36V DC black	brown + load blue	10-36V/DC +0	10-36V/DC		
two-wire AC	brown ~ 20-250AC	brown 20-250AC	02 lo 03 lo 20-250V/AC	20-250V/A 0		

None: Load with two-wire AC can be connected to either of the brown or blue leadwire.

Series and Parallel





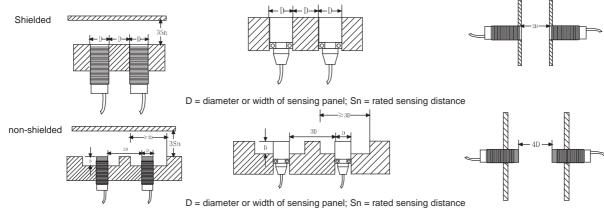


Note:

1) For series connection, if sensors do not operate stably, provide each with a 500 k to 10 M* resistor in parallel. This will stabilize the voltage and allow the sensors to operate stably.

2) Use parallel connect only when 2 or more sensors are not activated simultaneously. The leakage current, however, will be n times the value for each Sensor and reset failures will frequently occur.

Mounting Requirements

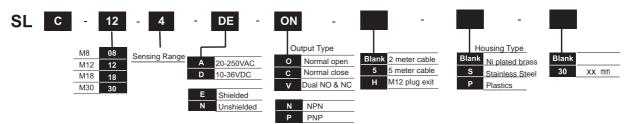






Inductive Proximity Switches

Ordering Codes



SLC-08 Series (Cylindrical Type) Inductive Proximity Switches

Operating Temperature: -25**70*

protection: Reverse Polarity Protection + Short circuit and overload protection

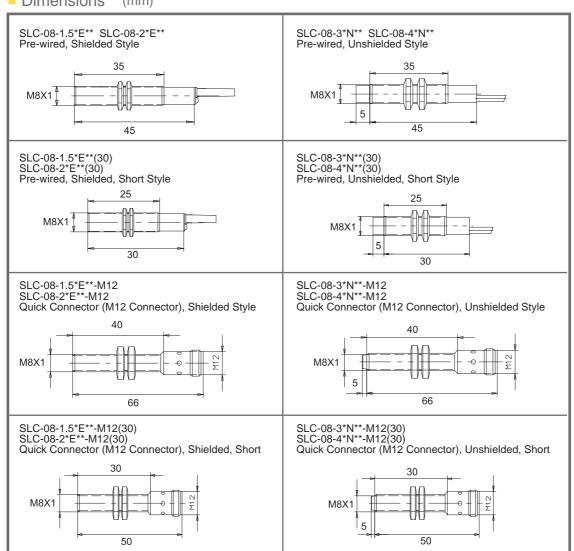
LED indicator: Red output energized,360 visibility

Degree of Protection: IP67 (EN 60529)

Applicable Standard: GB/T14048.10 EN 60947-5-2

Certification: UL Certification: E310408 CCC Certification: 20080103050268320

Dimensions (mm)







SLC-08 Series (Cylindrical Type) Inductive Proximity Switches

Specifications

		Sn	Sn Type		Supply voltage		Output						
Туре	Model Number(s)	Sensing Range Sn mm	Shielded	Unshielded	10-30VDC	10-36VDC	20-250VAC	Normal open	Normal close	NPN	PNP	Load current (max) mA	Switching frequency Hz
3- wire DC	SLC-08-1.5DEON	1.5	*			*		*		*		150	2K
	SLC-08-1. 5DE0P	1.5	*			*		*			*	150	2K
	SLC-08-1. 5DECN	1.5	*			*			*	*		150	2K
	SLC-08-1. 5DECP	1.5	*			*			*		*	150	2K
	SLC-08-3DN0N	3		*		*		*		*		150	2K
	SLC-08-3DNOP	3		*		*		*			*	150	2K
	SLC-08-3DNCN	3		*		*			*	*		150	2K
	SLC-08-3DNCP	3		*		*			*		*	150	2K
	SLC-08-2DE0N	2	*			*		*		*		150	2K
3- wire DC Extended Distance	SLC-08-2DEOP	2	*			*		*			*	150	2K
	SLC-08-2DECN	2	*			*			*	*		150	2K
	SLC-08-2DECP	2	*			*			*		*	150	2K
	SLC-08-4DNON	4		*		*		*		*		150	2K
	SLC-08-4DNOP	4		*		*		*			*	150	2K
	SLC-08-4DNCN	4		*		*			*	*		150	2K
	SLC-08-4DNCP	4		*		*			*		*	150	2K