

Inductive Proximity Switches

SLC Series (Cylindrical Type)

Ordering codes

SL	C	-	12	-	5	-	DE	-	ON	-	5M
Housing			Sensing Range			Output Type			Cable		
Cylindrical Metal	C	M8	08		D	10-30VDC	O	Normal open	Blank	2 meter cable	
Square Plastic	S	M12	12		A	90-250VAC	C	Normal close	5M	5 meter cable	
		M18	18		E	Shielded	V	Dual NO & NC	H	M12 plug exit	
		M30	30		N	Unshielded	N	NPN			
		17x17	17				P	PNP			
		25x25	25								
		40x40	40								



Specifications

3-wire DC Proximity Switch	M8		M12		M18		M30			
	Models		SLC-08-1DE	SLC-08-3DN	SLC-12-2DE	SLC-12-5DN	SLC-18-5DE	SLC-18-10DN	SLC-30-10DE	SLC-30-15DN
	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD
Sensing Range Sn	1.5mm	3mm	2mm	5mm	5 mm	10mm	10mm	15 mm		
Output Load current (max)	200mA		200mA		400mA		400mA			
Leakage current (max)	10µA		10µA		10µA		10µA			
Voltage drop	<2V DC		<2V DC		<2V DC		<2V DC			
Short circuit and overload protection	Yes		Yes		Yes		Yes			
Reverse Polarity Protection	Yes		Yes		Yes		Yes			
Supply voltage	10-30V DC		10-30V DC		10-30V DC		10-30V DC			
Switching frequency	2500Hz		2000Hz		1000Hz		500Hz			
Repeatability	5%		5%		5%		5%			
Hysteresis	10%		10%		10%		10%			
LED indicator	Red:output energized,360 visibility		Red:output energized,360 visibility		Red:output energized,360 visibility		Red:output energized,360 visibility			
Transient Noise Protection	Yes		Yes		Yes		Yes			
False Pulse Protection	Yes		Yes		Yes		Yes			
Temperature range	-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)			
Degree of protection	IP67		IP67		IP67		IP67			
Housing material	nickel plated brass		nickel plated brass		nickel plated brass		nickel plated brass			

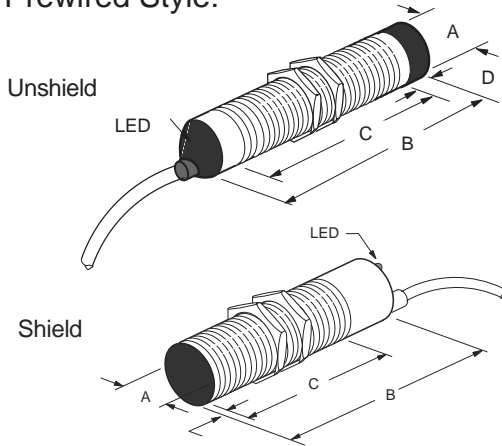
2-wire AC Proximity Switch	M8		M12		M18		M30			
	Models		SLC-08-1AE	SLC-08-3AN	SLC-12-2AE	SLC-12-5AN	SLC-18-5AE	SLC-18-10AN	SLC-30-10AE	SLC-30-15AN
	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD
Sensing Range Sn	1.5mm	3mm	2mm	5mm	5 mm	10mm	10mm	15 mm		
Output Load current	5-100mA		5-300mA		5-500mA		5-500mA			
Leakage current	<2mA		<2mA		<2mA		<2mA			
Inrush current	<1.7A/20ms		<1.7A/20ms		<1.7A/20ms		<1.7A/20ms			
Voltage drop	<7V AC		<7V AC		<7V AC		<7V AC			
Supply voltage	90-250VAC		90-250VAC		90-250VAC		90-250VAC			
Switching frequency	25Hz		25Hz		25Hz		25Hz			
Repeatability	5%		5%		5%		5%			
Hysteresis	10%		10%		10%		10%			
LED indicator	Red:output energized,360 visibility		Red:output energized,360 visibility		Red:output energized,360 visibility		Red:output energized,360 visibility			
Transient Noise Protection	Yes		Yes		Yes		Yes			
False Pulse Protection	Yes		Yes		Yes		Yes			
Temperature range	-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)			
Degree of protection	IP67		IP67		IP67		IP67			
Housing material	nickel plated brass		nickel plated brass		nickel plated brass		nickel plated brass			

Inductive Proximity Switches

SLC Series (Cylindrical Type)



Prewired Style:

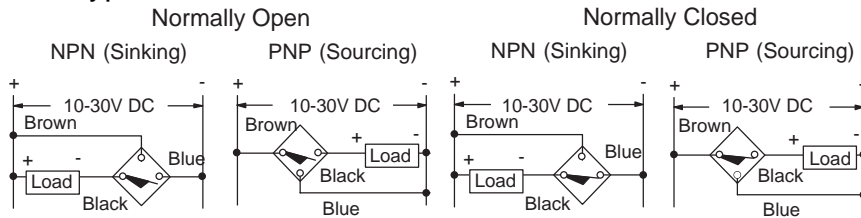


Dimensions mm (inches)

Thread Size		mm (inches)			
		A	B (max)	C (min)	D (max)
M8 X 1	Shield	8 (0.31)	45(1.77)	35(1.38)	5.0 (0.20)
	Unshield		50(1.97)		
M12 X 1	Shield	12 (0.47)	55(2.17)	40(1.57)	5.0 (0.20)
	Unshield		60(2.36)		
M18 X 1	Shield	18 (0.71)	62(2.44)	45(1.77)	8.5(0.33)
	Unshield		70(2.76)		
M30 X 1.5	Shield	30 (1.18)	57(2.24)	45(1.77)	13(0.51)
	Unshield		70(2.76)		

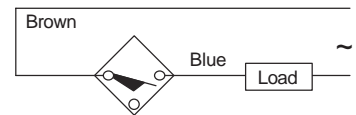
Wiring Diagram:

DC Type

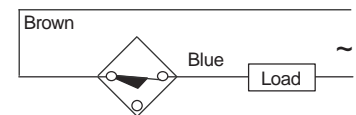


AC Type

Normal Open



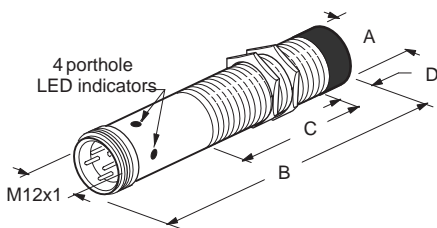
Normal Close



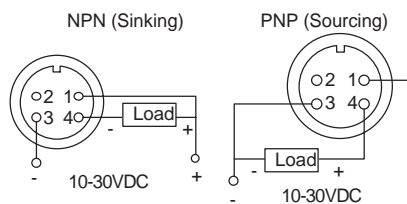
NOTE: Load can be switched to brown wire.

Quick Connector (M12 Connector) Style:

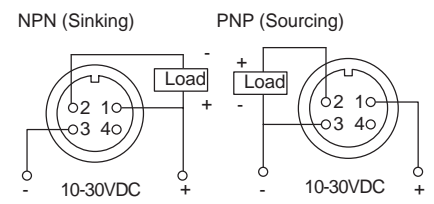
Dimensions mm (inches)



Normally Open



Normally Closed



Thread Size		mm (inches)			
		A	B (max)	C (min)	D (max)
M8 X 1	Shield	8 (0.31)	55(2.17)	35(1.38)	5.0 (0.20)
	Unshield		60(2.36)		
M12 X 1	Shield	12 (0.47)	60(2.36)	40(1.57)	5.0 (0.20)
	Unshield		65(2.56)		
M18 X 1	Shield	18 (0.71)	62(2.44)	45(1.77)	8.5(0.33)
	Unshield		70(2.76)		
M30 X 1.5	Shield	30 (1.18)	63(2.48)	45(1.77)	13(0.51)
	Unshield		76(2.99)		

Inductive Proximity Switches

SLS series (Rectangular Type)



SL	S	-	17	-	10	-	DN	-	ON	-	5M
Housing			Sensing Range			Output Type					
Cylindrical Metal	C	M8	08	D	10-30VDC	O	Normal open	Blank	2 meter cable		
Square Plastic	S	M12	12	A	90-250VAC	C	Normal close	5M	5 meter cable		
		M18	18	E	Shielded	V	Dual NO & NC	H	M12 plug exit		
		M30	30	N	Unshielded	N	NPN				
		17x17	17			P	PNP				
		25x25	25								
		40x40	40								

Specifications

2-wire AC Proximity Switch	25x25mm		40x40mm	
	SLS-25-10AE	SLS-25-15AN	SLS-40-15AE	SLS-40-15AN
Models	SHIELD	UNSHIELD	SHIELD	UNSHIELD
Sensing Range Sn	10mm	15mm	15mm	20mm
Output Load current	5-500mA		5-500mA	
Leakage current	<2mA		<2mA	
Inrush current	<1.7A/20ms		<1.7A/20ms	
Voltage drop	<7V AC		<7V AC	
Supply voltage	90-250VAC		90-250VAC	
Switching frequency	25Hz		25Hz	
Repeatability	5%		5%	
Hysteresis	10%		10%	
LED indicator	Yes		Yes	
Transient Noise Protection	Yes		Yes	
False Pulse Protection	Yes		Yes	
Temperature range	-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)	
Degree of protection	IP67		IP67	
Housing material	Plastics		Plastics	



3-wire DC Proximity Switch	17x17mm		25x25mm		40x40mm	
	SLS-17-5DE	SLS-17-10DN	SLS-25-10DE	SLS-25-15DN	SLS-40-15DE	SLS-40-20DN
Models	SHIELD	UNSHIELD	SHIELD	UNSHIELD	SHIELD	UNSHIELD
Sensing Range Sn	5mm	10mm	10mm	15mm	15 mm	20mm
Output Load current (max)	400mA		400mA		400mA	
Leakage current (max)	10µA		10µA		10µA	
Voltage drop	<2V DC		<2V DC		<2V DC	
Short circuit and overload protection	Yes		Yes		Yes	
Reverse Polarity Protection	Yes		Yes		Yes	
Supply voltage	10-30V DC		10-30V DC		10-30V DC	
Switching frequency	1000Hz		500Hz		500Hz	
Repeatability	5%		5%		5%	
Hysteresis	10%		10%		10%	
LED indicator	Yes		Yes		Yes	
Transient Noise Protection	Yes		Yes		Yes	
False Pulse Protection	Yes		Yes		Yes	
Temperature range	-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)		-25 ° to 70 °C (-13 ° to 158 °F)	
Degree of protection	IP67		IP67		IP67	
Housing material	Plastics		Plastics		Plastics	
Dimension (mm)						