

SUNS[®]

• Innovation • Quality • Service



PROXIMITY SWITCHES

<http://www.suns-usa.com>

<http://www.suns-cn.com>

2011-2012

SUNS[®] International,LLC

- Innovation
- Quality
- Service

SUNS International, a leading manufacturer of high quality industrial control products, designs, manufactures and markets complete range of limit switches, safety switches, micro switches, foot switches and proximity switches. Manufactured in ISO9001:2008 certified facilities and certified by UL, CSA, CE and CCC, SUNS products are reliable, competitive and are widely used in:

- Material Handling
- Stereoscopic Warehouses
- Robotics
- Printing Machinery
- Injection Molding Machinery
- Packaging Machinery
- Elevators
- Safety Doors



SUNS is the right choice for your applications.



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.

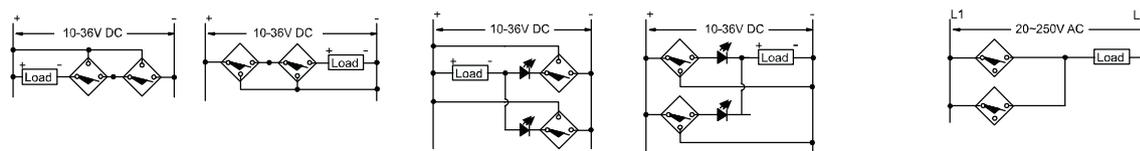
- Repeat Accuracy (R) Ratio of the difference value between any of the two measurements and distance of checking (Sn).
- Return Difference (H) Distance between operating point when target metal moves close to proximity switch and reset point when target metal moves away from the proximity.

■ Wiring Diagram:

	Leadwire N.O.	Leadwire N.C.	Quick Connect N.O.	Quick Connect N.C.
NPN three-wire DC				
PNP three-wire DC				
two-wire AC				

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

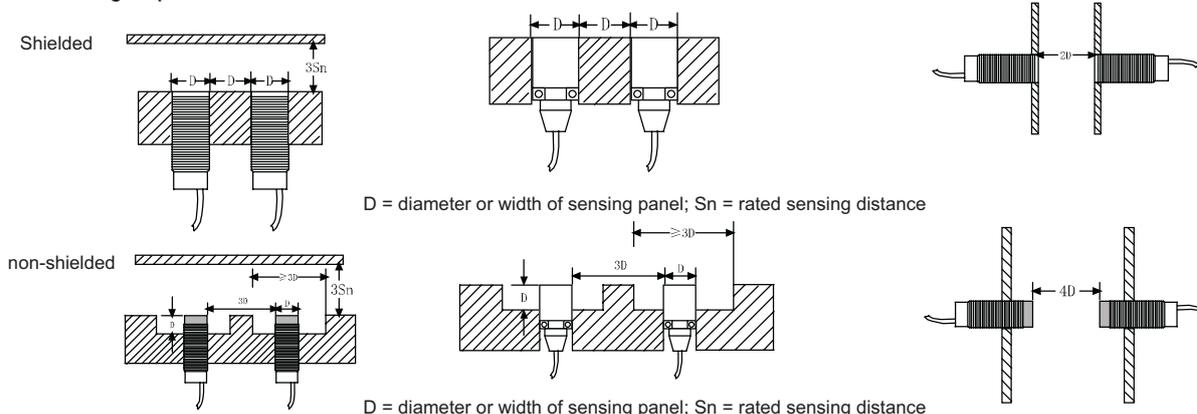
■ Series and Parallel



Note :

- 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.
- 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

SL	C	-	12	-	4	-	DE	-	ON	-	Blank	-	Blank	-	Blank
			Sensing Range				Output Type				Housing Type				
M8	08					A	20-250VAC	O	Normal open	Blank	2 meter cable	Blank	Ni plated brass	Blank	
M12	12					D	10-36VDC	C	Normal close	5	5 meter cable	S	Stainless Steel	30	xx mm
M18	18					E	Shielded	V	Dual NO & NC	H	M12 plug exit	P	Plastics		
M30	30					N	Unshielded	N	NPN						
								P	PNP						

SLC-08 Series (Cylindrical Type) Inductive Proximity Switches

Operating Temperature: -25°C~70°C

Protectio: 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)

<p>SLC-08-1.5*E** SLC-08-2*E** Pre-wired, Shielded Style</p>	<p>SLC-08-3*N** SLC-08-4*N** Pre-wired, Unshielded Style</p>
<p>SLC-08-1.5*E**(30) SLC-08-2*E**(30) Pre-wired, Shielded, Short Style</p>	<p>SLC-08-3*N**(30) SLC-08-4*N**(30) Pre-wired, Unshielded, Short Style</p>
<p>SLC-08-1.5*E**-M12 SLC-08-2*E**-M12 Quick Connector (M12 Connector), Shielded Style</p>	<p>SLC-08-3*N**-M12 SLC-08-4*N**-M12 Quick Connector (M12 Connector), Unshielded Style</p>
<p>SLC-08-1.5*E**-M12(30) SLC-08-2*E**-M12(30) Quick Connector (M12 Connector), Shielded, Short</p>	<p>SLC-08-3*N**-M12(30) SLC-08-4*N**-M12(30) Quick Connector (M12 Connector), Unshielded, Short</p>

SLC-08 Series (Cylindrical Type) Inductive Proximity Switches

■ Specifications

Type	Model Number(s)	Sn	Type		Supply voltage			Output					
		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-08-1.5DEOP	1.5	●			●		●			●	150	2K
	SLC-08-1.5DECN	1.5	●			●			●	●		150	2K
	SLC-08-1.5DECP	1.5	●			●			●		●	150	2K
	SLC-08-3DNON	3		●		●		●		●		150	2K
	SLC-08-3DNOP	3		●		●		●			●	150	2K
	SLC-08-3DNCN	3		●		●			●	●		150	2K
	SLC-08-3DNCP	3		●		●			●		●	150	2K
3- wire DC Extended Distance	SLC-08-2DEON	2	●			●		●		●		150	2K
	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

SLC-12 Series (Cylindrical Type) Inductive Proximity Switches

Operating Temperature: -25°C~70°C
 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)

<p>SLC-12-2*E** SLC-12-5*E** Pre-wired, Shielded Style</p>	<p>SLC-12-4*N** SLC-12-7*N** Pre-wired, Unshielded Style</p>
<p>SLC-12-2*E**(30) SLC-12-5*E**(30) Pre-wired, Shielded, Short Style</p>	<p>SLC-12-4*N**(30) SLC-12-7*N**(30) Pre-wired, Unshielded, Short Style</p>
<p>SLC-12-2*E**-M12 SLC-12-5*E**-M12 Quick Connector (M12 Connector), Shielded Style</p>	<p>SLC-12-4*N**-M12 SLC-12-7*N**-M12 Quick Connector (M12 Connector), Unshielded Style</p>
<p>SLC-12-2*E**-M12(30) SLC-12-5*E**-M12(30) Quick Connector (M12 Connector), Shielded, Short</p>	<p>SLC-12-4*N**-M12(30) SLC-12-7*N**-M12(30) Quick Connector (M12 Connector), Unshielded, Short</p>

SLC-12 Series (Cylindrical Type) Inductive Proximity Switches

■ Specifications

Type	Model Number(s)	Sn	Type		Supply voltage			Output					
		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
2-wire DC	SLC-12-2DE0	2	●		●			●				50	800
	SLC-12-2DEC	2	●		●				●			50	800
	SLC-12-5DNO	5		●	●			●				50	500
	SLC-12-5DNC	5		●	●				●			50	500
2-wire DC Extended Distance	SLC-12-4DE0	4	●		●			●				50	250
	SLC-12-4DEC	4	●		●				●			50	250
	SLC-12-7DNO	7		●	●			●				50	200
	SLC-12-7DNC	7		●	●				●			50	200
3-wire DC	SLC-12-2DEON	2	●			●		●		●		200	800
	SLC-12-2DEOP	2	●			●		●			●	200	800
	SLC-12-2DECN	2	●			●			●	●		200	800
	SLC-12-2DECP	2	●			●			●		●	200	800
	SLC-12-5DNON	5		●	●			●		●		200	800
	SLC-12-5DNOP	5		●	●			●			●	200	800
	SLC-12-5DNCN	5		●	●				●	●		200	800
	SLC-12-5DNCP	5		●	●				●		●	200	800
3-wire DC Extended Distance	SLC-12-4DEON	4	●			●		●		●		200	800
	SLC-12-4DEOP	4	●			●		●			●	200	800
	SLC-12-4DECN	4	●			●			●	●		200	800
	SLC-12-4DECP	4	●			●			●		●	200	800
	SLC-12-7DNON	7		●	●			●		●		200	800
	SLC-12-7DNOP	7		●	●			●			●	200	800
	SLC-12-7DNCN	7		●	●				●	●		200	800
	SLC-12-7DNCP	7		●	●				●		●	200	800
2-wire AC	SLC-12-2AE0	2	●				●	●				350	25
	SLC-12-2AEC	2	●				●		●			350	25
	SLC-12-5ANO	5		●			●	●				350	25
	SLC-12-5ANC	5		●			●		●			350	25
2-wire AC Extended Distance	SLC-12-4AE0	4	●				●	●				350	25
	SLC-12-4AEC	4	●				●		●			350	25
	SLC-12-7ANO	7		●			●	●				350	25
	SLC-12-7ANC	7		●			●		●			350	25

SLC-18 Series (Cylindrical Type) Inductive Proximity Switches

Operating Temperature: -25°C~70°C
 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)

<p>SLC-18-5*E** SLC-18-8*E** Pre-wired, Shielded Style</p>	<p>SLC-18-10*N** SLC-18-12*N** Pre-wired, Unshielded Style</p>
<p>SLC-18-5*E**(30) SLC-18-8*E**(30) Pre-wired, Shielded, Short Style</p>	<p>SLC-18-10*N**(30) SLC-18-12*N**(30) Pre-wired, Unshielded, Short Style</p>
<p>SLC-18-5*E**-M12 SLC-18-8*E**-M12 Quick Connector (M12 Connector), Shielded Style</p>	<p>SLC-18-10*N**-M12 SLC-18-12*N**-M12 Quick Connector (M12 Connector), Unshielded Style</p>
<p>SLC-18-5*E**-M12(30) SLC-18-8*E**-M12(30) Quick Connector (M12 Connector), Shielded, Short</p>	<p>SLC-18-10*N**-M12(30) SLC-18-12*N**-M12(30) Quick Connector (M12 Connector), Unshielded, Short</p>

SLC-18 Series (Cylindrical Type) Inductive Proximity Switches

■ Specifications

Type	Model Number(s)	Sn	Type		Supply voltage			Output					
		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
2- wire DC	SLC-18-5DE0	5	●		●			●				50	800
	SLC-18-5DEC	5	●		●				●			50	800
	SLC-18-10DN0	10		●	●			●				50	500
	SLC-18-10DNC	10		●	●				●			50	500
2- wire DC Extended Distance	SLC-18-8DE0	8	●		●			●				50	250
	SLC-18-8DEC	8	●		●				●			50	250
	SLC-18-12DN0	12		●	●			●				50	200
	SLC-18-12DNC	12		●	●				●			50	200
3- wire DC	SLC-18-5DEON	5	●			●		●		●		200	800
	SLC-18-5DEOP	5	●			●		●			●	200	800
	SLC-18-5DECN	5	●			●			●	●		200	800
	SLC-18-5DECP	5	●			●			●		●	200	800
	SLC-18-10DNON	10		●		●		●		●		200	800
	SLC-18-10DNOP	10		●		●		●			●	200	800
	SLC-18-10DNCN	10		●		●			●	●		200	800
	SLC-18-10DNCP	10		●		●			●		●	200	800
3- wire DC Extended Distance	SLC-18-8DEON	8	●			●		●		●		200	800
	SLC-18-8DEOP	8	●			●		●			●	200	800
	SLC-18-8DECN	8	●			●			●	●		200	800
	SLC-18-8DECP	8	●			●			●		●	200	800
	SLC-18-12DNON	12		●		●		●		●		200	800
	SLC-18-12DNOP	12		●		●		●			●	200	800
	SLC-18-12DNCN	12		●		●			●	●		200	800
	SLC-18-12DNCP	12		●		●			●		●	200	800
2- wire AC	SLC-18-5AE0	5	●				●	●				350	25
	SLC-18-5AEC	5	●				●		●			350	25
	SLC-18-10AN0	10		●			●	●				350	25
	SLC-18-10ANC	10		●			●		●			350	25
2- wire AC Extended Distance	SLC-18-8AE0	8	●				●	●				350	25
	SLC-18-8AEC	8	●				●		●			350	25
	SLC-18-12AN0	12		●			●	●				350	25
	SLC-18-12ANC	12		●			●		●			350	25

SLC-30 Series (Cylindrical Type) Inductive Proximity Switches

Operating Temperature: -25°C~70°C

Protectio: 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)

<p>SLC-30-10*E** SLC-30-15*E** Pre-wired, Shielded Style</p>	<p>SLC-30-15*N** SLC-30-22*N** Pre-wired, Unshielded Style</p>
<p>SLC-30-10*E**(30) SLC-30-15*E**(30) Pre-wired, Shielded, Short Style</p>	<p>SLC-30-15*N**(30) SLC-30-22*N**(30) Pre-wired, Unshielded, Short Style</p>
<p>SLC-30-10*E**-M12 SLC-30-15*E**-M12 Quick Connector (M12 Connector), Shielded Style</p>	<p>SLC-30-15*N**-M12 SLC-30-22*N**-M12 Quick Connector (M12 Connector), Unshielded Style</p>
<p>SLC-30-10*E**-M12(30) SLC-30-15*E**-M12(30) Quick Connector (M12 Connector), Shielded, Short</p>	<p>SLC-30-15*N**-M12(30) SLC-30-22*N**-M12(30) Quick Connector (M12 Connector), Unshielded, Short</p>

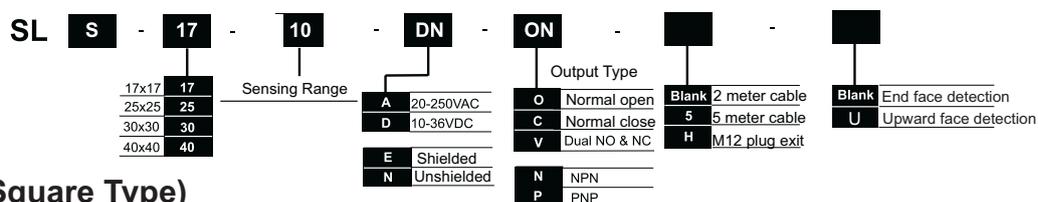
SLC-30 Series (Cylindrical Type) Inductive Proximity Switches

Specifications

Type	Model Number(s)	Sn	Type		Supply voltage			Output					
		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
2- wire DC	SLC-30-10DE0	10	●		●			●				50	350
	SLC-30-10DEC	10	●		●				●			50	350
	SLC-30-15DNO	15		●	●			●				50	300
	SLC-30-15DNC	15		●	●				●			50	300
2- wire DC Extended Distance	SLC-30-15DE0	15	●		●			●				50	300
	SLC-30-15DEC	15	●		●				●			50	300
	SLC-30-22DNO	22		●	●			●				50	200
	SLC-30-22DNC	22		●	●				●			50	200
3- wire DC	SLC-30-10DEON	10	●			●		●		●		200	500
	SLC-30-10DEOP	10	●			●		●			●	200	500
	SLC-30-10DECN	10	●			●			●	●		200	500
	SLC-30-10DECP	10	●			●			●		●	200	500
	SLC-30-15DNON	15		●		●		●		●		200	500
	SLC-30-15DNOP	15		●		●		●			●	200	500
	SLC-30-15DNCN	15		●		●			●	●		200	500
	SLC-30-15DNCP	15		●		●			●		●	200	500
3- wire DC Extended Distance	SLC-30-15DEON	15	●			●		●		●		200	500
	SLC-30-15DEOP	15	●			●		●			●	200	500
	SLC-30-15DECN	15	●			●			●	●		200	500
	SLC-30-15DECP	15	●			●			●		●	200	500
	SLC-30-22DNON	22		●		●		●		●		200	500
	SLC-30-22DNOP	22		●		●		●			●	200	500
	SLC-30-22DNCN	22		●		●			●	●		200	500
	SLC-30-22DNCP	22		●		●			●		●	200	500
2- wire AC	SLC-30-10AEO	10	●				●	●				350	25
	SLC-30-10AEC	10	●				●		●			350	25
	SLC-30-15ANO	15		●			●	●				350	25
	SLC-30-15ANC	15		●			●		●			350	25
2- wire AC Extended Distance	SLC-30-15AEO	15	●				●	●				350	25
	SLC-30-15AEC	15	●				●		●			350	25
	SLC-30-22ANO	22		●			●	●				350	25
	SLC-30-22ANC	22		●			●		●			350	25

Inductive Proximity Switches

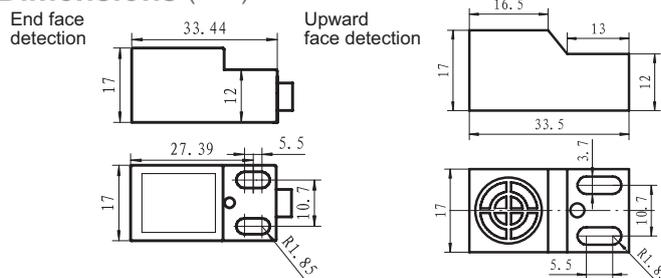
■ Selection Guide



SLS-17 Series (Square Type)

Housing Type: Plastic
 Operating Temperature: -25°C~70°C
 Protectio: 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)



■ Specifications

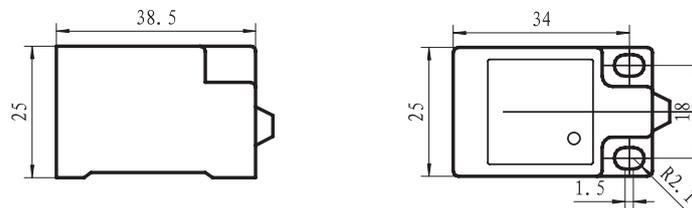
Type	Model Number(s)	Sn Sensing Range Sn mm	Type		Rated Voltage			Output				Load current (max) mA	Switching frequency Hz
			Shielded	Unshielded	10-30VDC	10-36VDC	20-250VAC	Normal open	Normal close	NPN	PNP		
2-wire DC Shielded	SLS-17-5DE0	5	●		●			●				50	800
	SLS-17-5DEC	5	●		●				●			50	800
2-wire DC Unshielded	SLS-17-10DN0	10		●	●			●				50	500
	SLS-17-10DNC	10		●	●				●			50	500
2-wire DC Shielded upward face detection	SLS-17-5DE0	5	●		●			●				50	800
	SLS-17-5DEC	5	●		●				●			50	800
2-wire DC Shielded upward face detection	SLS-17-10DN0	10		●	●			●				50	500
	SLS-17-10DNC	10		●	●				●			50	500
3-Wire DC Shielded	SLS-17-5DEON	5	●			●		●		●		200	800
	SLS-17-5DEOP	5	●			●		●			●	200	800
	SLS-17-5DECN	5	●			●			●	●		200	800
	SLS-17-5DECP	5	●			●			●		●	200	800
3-Wire DC Unshielded	SLS-17-10DNON	10		●	●			●		●		200	500
	SLS-17-10DNOP	10		●	●			●			●	200	500
	SLS-17-10DNCN	10		●	●				●	●		200	500
	SLS-17-10DNCP	10		●	●				●		●	200	500
3-Wire DC upward face detection (Shielded)	SLS-17-5DEON	5	●			●		●		●		200	800
	SLS-17-5DEOP	5	●			●		●			●	200	800
	SLS-17-5DECN	5	●			●			●	●		200	800
	SLS-17-5DECP	5	●			●			●		●	200	800
3-Wire DC upward face detection (Unshielded)	SLS-17-10DNON	10		●	●			●		●		200	500
	SLS-17-10DNOP	10		●	●			●			●	200	500
	SLS-17-10DNCN	10		●	●				●	●		200	500
	SLS-17-10DNCP	10		●	●				●		●	200	500

SLS-25 Series (Square Type) Inductive Proximity Switches

Housing Type: Plastic
 Operating Temperature: -25°C~70°C
 Protectio: 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)



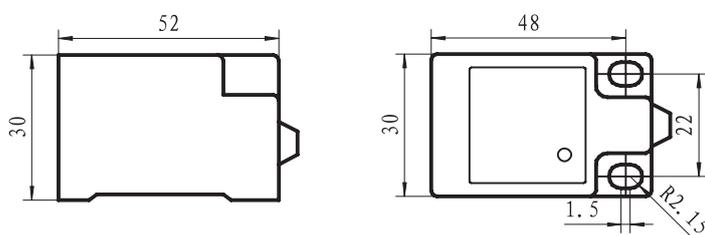
■ Specifications

Type	Model Number(s)	Sn	Type			Rated Voltage			Output				
			Sensing Rangemm	Shielded	Unshielded	10-30VDC	10-36VDC	20-250VAC	Normal Open	Normal Close	NPN	PNP	Load Current (Max)mA
2-Wire DC Shielded	SLS-25-10DE0	10	●		●			●				50	350
	SLS-25-10DEC	10	●		●				●			50	350
2-Wire DC Unshielded	SLS-25-15DNO	15		●	●			●				50	300
	SLS-25-15DNC	15		●	●				●			50	300
3-Wire DC Shielded	SLS-25-10DEON	10	●			●		●		●		200	350
	SLS-25-10DEOP	10	●			●		●			●	200	350
	SLS-25-10DECN	10	●			●			●	●		200	350
	SLS-25-10DECP	10	●			●			●		●	200	350
3-Wire DC Unshielded	SLS-25-15DNON	15		●		●		●		●		200	300
	SLS-25-15DNOP	15		●		●		●			●	200	300
	SLS-25-15DNCN	15		●		●			●	●		200	300
	SLS-25-15DNCP	15		●		●			●		●	200	300
2-Wire AC Shielded	SLS-25-10AEO	10	●				●	●				350	25
	SLS-25-10AEC	10	●				●		●			350	25
2-Wire AC Unshielded	SLS-25-15ANO	15		●			●	●				350	25
	SLS-25-15ANC	15		●			●		●			350	25

SLS-30 Series (Square Type) Inductive Proximity Switches

Housing Type: Plastic
 Operating Temperature: -25°C~70°C
 Protectio: 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)



■ Specifications

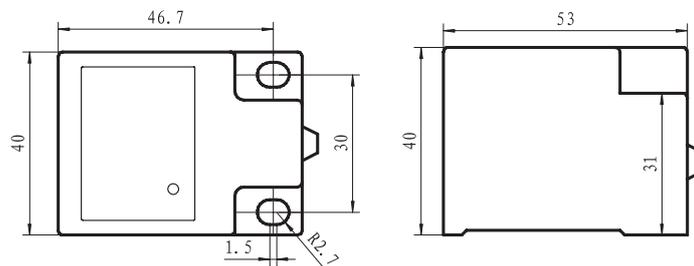
Type	Model Number(s)	Sn	Type		Rated Voltage			Output					
		Sensing Rangemm	Shielded	Unshielded	10-30VDC	10-36VDC	20-250VAC	Normal Open	Normal Close	NPN	PNP	Load Current (Max)mA	Switching Frequency Hz
2-Wire DC Shielded	SLS-30-10DE0	10	●		●			●				50	350
	SLS-30-10DEC	10	●		●				●			50	350
2-Wire DC Unshielded	SLS-30-15DN0	15		●	●			●				50	300
	SLS-30-15DNC	15		●	●				●			50	300
3-Wire DC Shielded	SLS-30-10DEON	10	●			●		●		●		200	350
	SLS-30-10DEOP	10	●			●		●			●	200	350
	SLS-30-10DECN	10	●			●			●	●		200	350
	SLS-30-10DECP	10	●			●			●		●	200	350
3-Wire DC Unshielded	SLS-30-15DNON	15		●		●		●		●		200	300
	SLS-30-15DNOP	15		●		●		●			●	200	300
	SLS-30-15DNCN	15		●		●			●	●		200	300
	SLS-30-15DNCP	15		●		●			●		●	200	300
2-Wire AC shielded	SLS-30-10AE0	10	●				●	●				350	25
	SLS-30-10AEC	10	●				●		●			350	25
2-Wire AC Unshielded	SLS-30-15AN0	15		●			●	●				350	25
	SLS-30-15ANC	15		●			●		●			350	25

SLS-40 Series (Square Type) Inductive Proximity Switches

Housing Type: Plastic
 Operating Temperature: -25°C~70°C
 Protectio: 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)



■ Specifications

Type	Model Number(s)	Sn Sensing Rangemm	Type		Rated Voltage			Output				Load Current (Max)mA	Switching Frequency Hz
			Shielded	Unshielded	10-30VDC	10-36VDC	20-250VAC	Normal Open	Normal Close	NPN	PNP		
DC-2 Wire Shielded	SLS-40-15DE0	15	●		●			●				50	300
	SLS-40-15DEC	15	●		●				●			50	300
DC-2 Wire Unshielded	SLS-40-20DNO	20		●	●			●				50	200
	SLS-40-20DNC	20		●	●				●			50	200
DC-3 Wire Shielded	SLS-40-15DEON	15	●			●		●		●		200	300
	SLS-40-15DEOP	15	●			●		●			●	200	300
	SLS-40-15DECN	15	●			●			●	●		200	300
	SLS-40-15DECP	15	●			●			●		●	200	300
DC-3 Wire Unshielded	SLS-40-20DNON	20		●		●		●		●		200	200
	SLS-40-20DNOP	20		●		●		●			●	200	200
	SLS-40-20DNCN	20		●		●			●	●		200	200
	SLS-40-20DNCP	20		●		●			●		●	200	200
AC-2 Wire Shielded	SLS-40-15AEO	15	●				●	●				350	25
	SLS-40-15AEC	15	●				●		●			350	25
AC-2 Wire Unshielded	SLS-40-20ANO	20		●			●	●				350	25
	SLS-40-20ANC	20		●			●		●			350	25

M12 Connector Cable

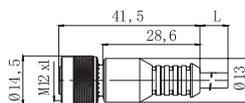
M12 Connector Cable Specification:

Specifications	
Connector Locking system	Screw M12 x1
Connection section mm ²	Max. 0.25(24AWG) / Max. 0.34(22AWG)
Degree of protection	IP67 / IP68
Mechanical operation	>500 mating cycles
Operating Temperature:	-25°C to 85°C (PVC), -40°C to 85°C (PUR)

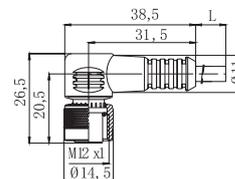
■ Selection Guide



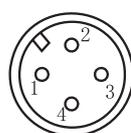
M12 Straight Connector cable
QC-4-12-S-2-PVC



M12 Angled Connector cable (90 degree)
QC-4-12-A-2-PVC



M12 connector pin connection diagram



- 1 Brown
- 2 White
- 3 Blue
- 4 Black

Proximity Tester (Model ST-800)



SUNS ST-800 proximity switch tester is designed to test most 3 wire DC proximity switches: inductives [metal sensing], capacitives, photoelectrics or ultrasonics. The unit is fitted with 2x 9V batteries ready for use.

Standard color coding for 3 wire proximity switches is Brown = Positive Black = Load, Blue = Negative (-) [Note: some universal DC switches can vary, try to follow makers wiring instructions]

TESTING INSTRUCTIONS

Connect the switch to the ST-800, place a suitable target in front of the switch. If the switch is functioning correctly, the unit will give audio and visual indication showing the switch operates and indicating the functionality of the switch according to the chart below :

Switch type	Buzzer & LED on when	LED
PNP normally	open target in range	PNP
PNP normally	closed target not in range	PNP
NPN normally	open target in range	NPN
NPN normally	closed target not in range	NPN

If the proximity switch does not give such feedback when correctly connected to the tester, it has probably failed. [Note: The ST-800 will not test 2 wire AC or DC switches]

LED Functions

Green I/O LED	switch connected & unit on
Red (Batt) LED	battery low indicator
PNP or NPN LED	indicated switch type

The logo for SUNS, featuring the word "SUNS" in a bold, white, sans-serif font with a registered trademark symbol (®) to the upper right.

The Right Switch For Your Applications

