

SSP-IFxx-xx

Proximity inductive sensor with 2-wire output



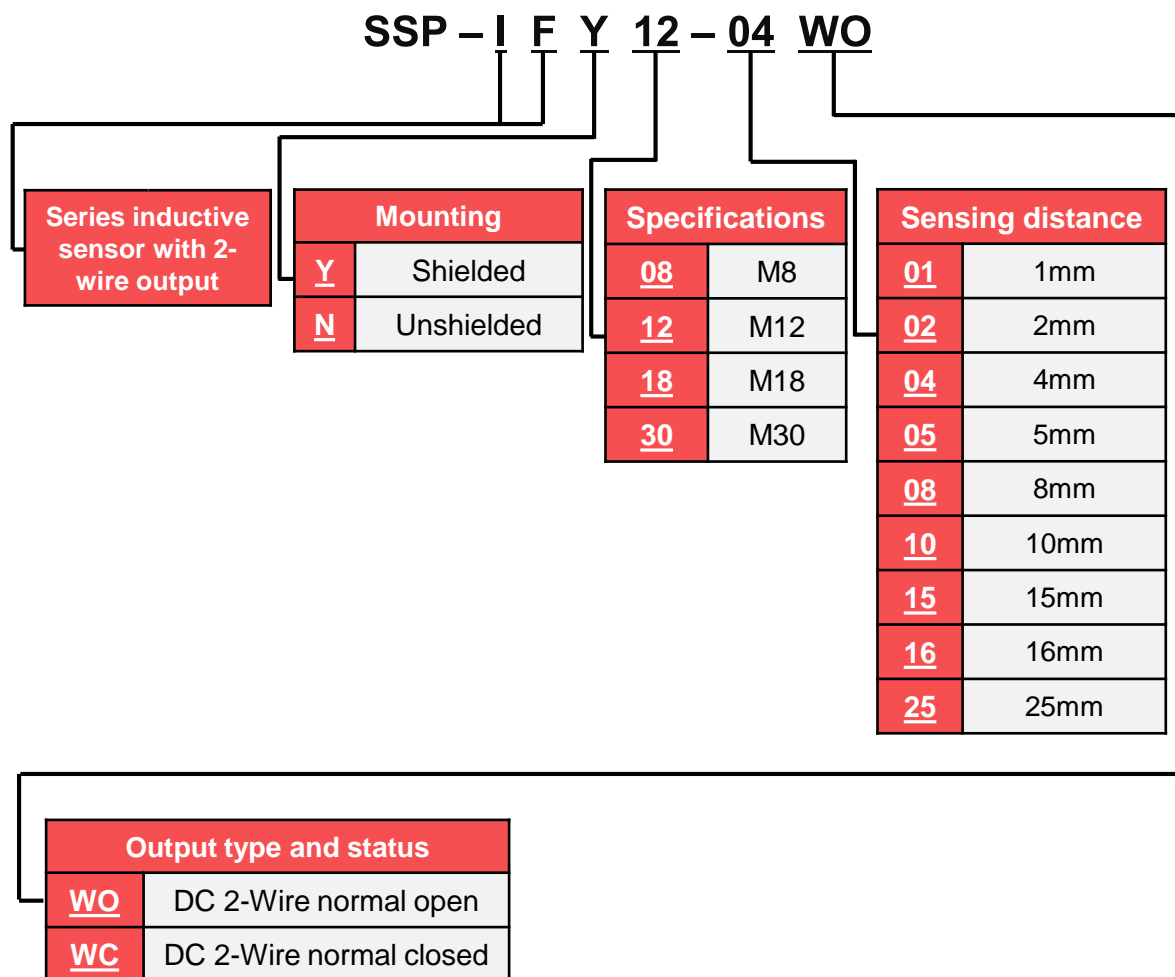
PRODUCTS FEATURES

- Inductive, M8/M12/M18/M30
- Shielded/Unshielded
- Sensing distance 1~25mm adjustable
- NC/NO status type

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1. Ordering information



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2. Input/Output circuit

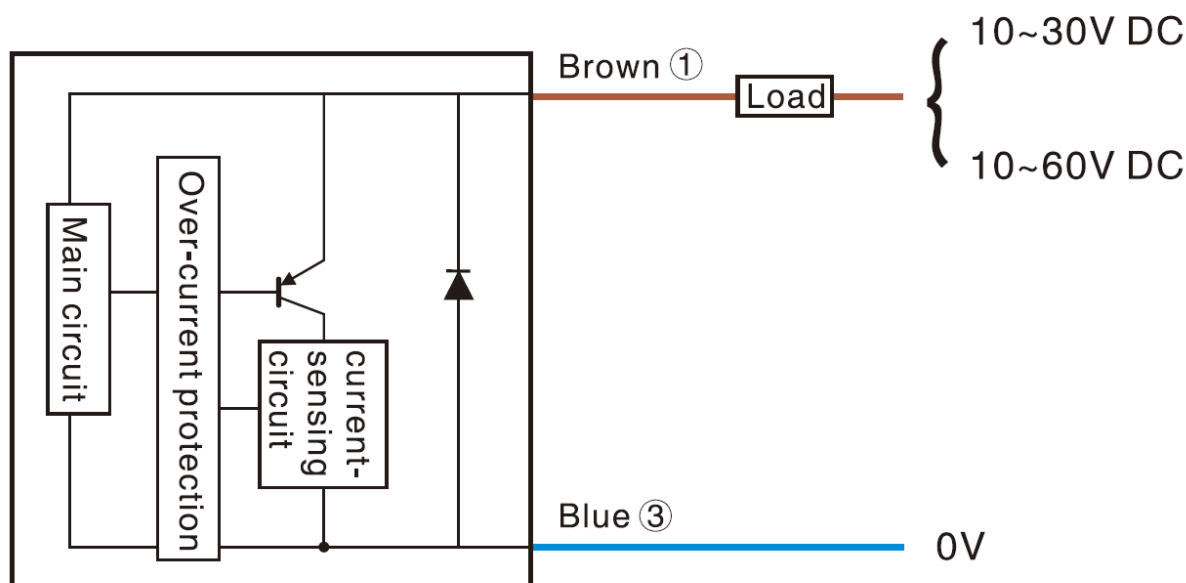


Figure 2.1. Input/Output circuit for DC 2-Wire

**Load (can be connected between blue wire and negative power supply.) M8 sensor does not include short-circuit protection or current detection circuit.*

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3. Technical parameters

Table 1 - standards and technical data for shielded type

Mounting	Shielded			
Housing size	M8	M12	M18	M30
Sensing distance	1mm/2mm±10%	2mm/4mm±10%	5mm/8mm±10%	10mm/16mm±10%
Housing material	Stainless steel	Nickel copper alloy		
Operating voltage	10~30VDC	10~60VDC (Ripple < 10%)		
Operating current	3~100mA			
Leakage current	< 0.8mA			
Voltage drop	<6V/<4V			
Over-load current.	>120mA			
Protective circuit	Short circuit			
Switch frequency	2kHz	1kHz		500Hz
Repeat accuracy	< 2%			
Hysteresis	15%			
Temperature drift	10%			
Sensing surface material	PBT			
Operating temperature	-25°C~+75°C			

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Table 2 - standards and technical data for unshielded type

Mounting	Unshielded			
Housing size	M8	M12	M18	M30
Sensing distance	2mm/4mm±10%	4mm/8mm±10%	8mm/16mm±10%	15mm/25mm±10%
Housing material	Stainless steel	Nickel copper alloy		
Operating voltage	10~30VDC	10~60VDC (Ripple < 10%)		
Operating current	3~100mA			
Leakage current	< 0.8mA			
Voltage drop	<6V/<4V			
Over-load current.	>120mA			
Protective circuit	Short circuit			
Switch frequency	2kHz	1kHz	500Hz	200Hz
Repeat accuracy	< 2%			
Hysteresis	15%			
Temperature drift	10%			
Sensing surface material	PBT			
Operating temperature	-25°C~+75°C			

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4. Mechanical dimension and part number

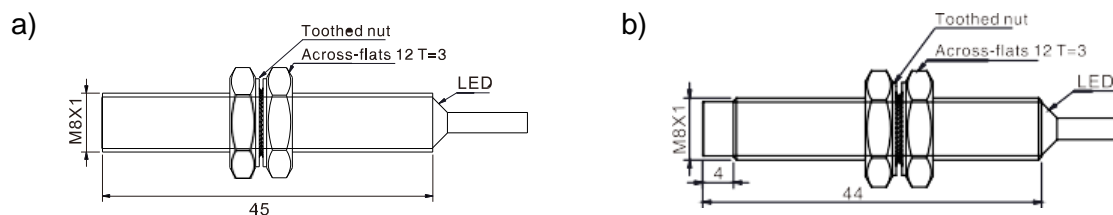


Figure 4.1. Housing size – M8: a) shielded, sensing distance 1/2 mm ; b) unshielded sensing distance 2/4 mm

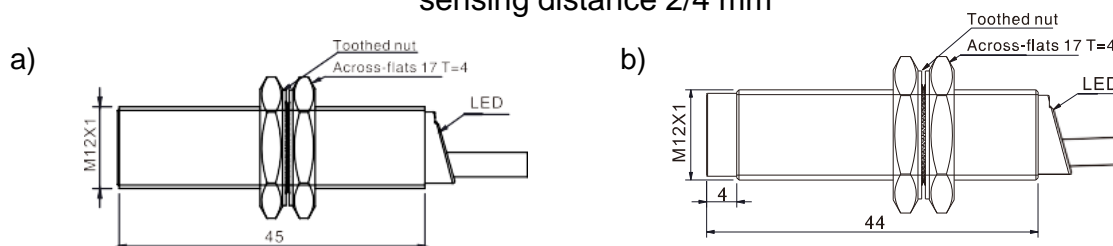


Figure 4.2. Housing size – M12: a) shielded, sensing distance 2/4 mm; b) unshielded sensing distance 4/8 mm

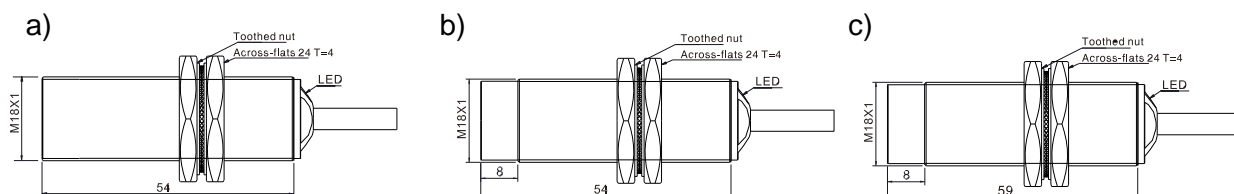


Figure 4.3. Housing size – M18: a) shielded, sensing distance 5/8 mm; b) unshielded, sensing distance 8 mm; c) unshielded, sensing distance 16 mm

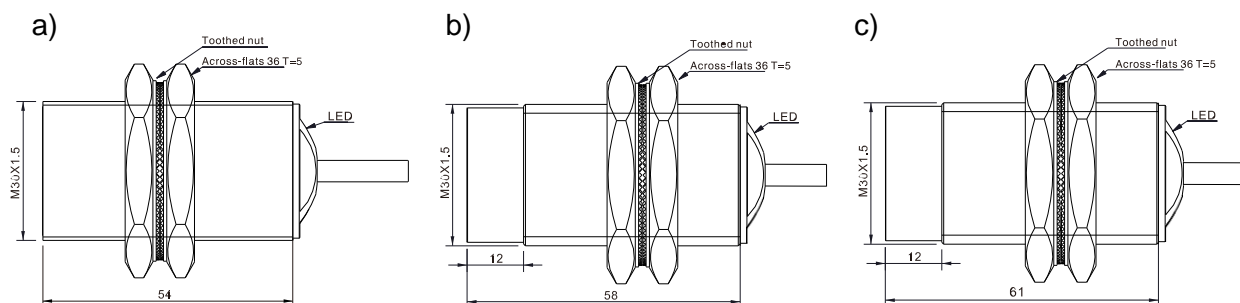


Figure 4.4. Housing size – M30: a) shielded, sensing distance 10/16 mm; b) unshielded, sensing distance 15 mm; c) unshielded, sensing distance 25 mm