

18 mm Diameter DC 4 Wire

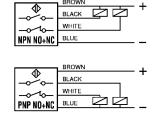
FEATURES:

- Short circuit & reverse polarity protection
- Protection degree IP65

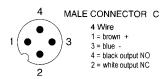
- · LED function indicator
- 5 and 10 meter cable lengths available upon request

		MODEL					
Output	NPN, NO+NC	S5000	S5022	S5010	S5032		
Function	PNP, NO+NC	S5001	S5023	S5011	S5033		
Dimensions: mm 1 mm = .03937" 1" = 25.4 mm		M18 x 1	M18 x 1	M18 x 1	M18 x1		
Operating	g Distance (Sn)	0-5 mm (Adjustable)	0-10 mm (Adjustable)	0-5 mm (Adjustable)	0-10 mm (Adjustable)		
External D	Diameter		M18 x 1				
Power Supply		10 - 40 Vdc					
Max Switching Current		200 mA					
Power Dra	ain (24Vdc)	≤ 10 mA					
Voltage Drop (sensor ON) < 1.8 V							
Short Circ	uit Protection		Ye	es			
Operating	Frequency		10 Hz				
Repeatab	ility (%Sn)	<10%					
Hysteresis	s (%Sn)		Depends on	(Sn), ≤ 20%			
Case		Nickel-plated brass	Plastic	Nickel-plated brass	Plastic		
Flush Mou	unting	Yes	No	Yes	No		
Protection	Degree		IP	67	_		
Operating	Temperature	- 20 to +70 °C					
Output Co	nnection	Cable PVC: L = 3 m Connector C			ector C		
Protective	Housing Model		S5910		S5910		

WIRING:



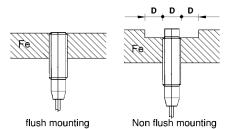
CONNECTOR:



MATING CONNECTORS:

ID# Type Description
4 wire
S3496/2 C right angle w/ 2 meter cable
S3496 C right angle w/ 5 meter cable
S3499/2 C straight w/ 2 meter cable
S3499 C straight w/ 5 meter cable
O30502C right angle, terminal screws
field wire-able
O30503C straight, terminal screws
field wire-able

MOUNTING:



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18 mm Diameter AC

FEATURES:

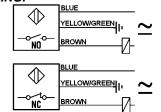
- Protection degree IP65
- LED function indicator

- Sensitivity adjustment
- 5 and 10 meter cable lengths available upon request

			MO	DEL		
Output	NO	S5040	S5062	S5050	S5072	
Function	NC	S5041	S5063	S5051	S5073	
Dimensions 1" = 25.4 m 1 mm = .03	nm	M18 x 1	M18 x 1	M18 x 1	M18 x 1	
Operating	Distance (Sn)	0-5 mm (Adjustable)	0-10 mm (Adjustable)	0-5 mm (Adjustable)	0-10 mm (Adjustable)	
External D	iameter	M18 x 1				
Power Sup	oply	20 - 250 Vac				
Max Switc	hing Current	300 mA				
Min Switch	ning Current	10 mA				
Max Peak	Current for 20ms	1.5 A				
Residual C	Current	≤ 1 mA				
Voltage Di	rop	< 6 V				
Operating	Frequency	10 Hz				
Repeatability (%Sn)		<10%				
Hysteresis	s (%Sn)		Depends on (Sn), ≤ 20%		_	
Case		Nickel-plated brass	Grey Plastic	Nickel-plated brass	Grey Plastic	
Flush Mou	ınting	Yes	No	Yes	No	
Protection	Degree	IP 65				
Operating Temperature		- 20 to +70 °C				
Output Connection		Cable PVC: L = 3 m Connector C			ector C	
Protective	Housing Model		S5910		S5910	

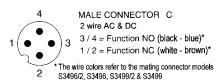
Attention must be paid to the minimum switching current, residual current and voltage drop when selecting low consumption relays or high impedance electronic controls to be used with these sensors. They are adapted for inputs of programmable controllers.

WIRING:



CONNETOR:

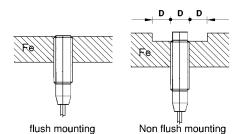
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MATING CONNECTORS:

ID# Type Description 4 wire S3496/2 C right angle w/ 2 meter cable right angle w/ 5 meter cable S3496 S3499/2 Č straight w/ 2 meter cable straight w/ 5 meter cable S3499 Ċ right angle, terminal screws 030502 field wire-able 030503 C straight, terminal screws field wire-able

MOUNTING:



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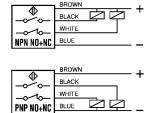
30 mm Diameter DC 4 Wire

FEATURES:

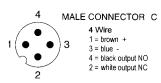
- Short circuit & reverse polarity protection
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- 5 and 10 meter cable lengths available upon request

			MO	DEL		
Output	NPN, NO+NC	S5100	S5122	S5110	S5132	
Function	PNP, NO+NC	S5101	S5123	S5111	S5133	
Dimensions: mm 1" = 25.4 mm 1 mm = .03937"		M30x1.5 M30x1.5 Adjustment	M30x1.5 Adjustment	M30x1.5 Adjustment	Adjustment Ago M30x1.5	
Operating	Distance (Sn)	0-20 mm (Adjustable)	0-25 mm (Adjustable)	0-20 mm (Adjustable)	0-25 mm (Adjustable)	
External D	iameter	M30 x 1.5				
Power Supply		10 – 60Vdc				
Max Switching Current		200 mA				
Power Dra	ain (24Vdc)	≤ 10 mA				
Voltage Drop (sensor ON)		< 1.8 V				
Short Circuit Protection		Yes				
Operating	Frequency	10 Hz				
Repeatabi	lity (%Sn)	<10%				
Hysteresis	s (%Sn)	Depends on (Sn), ≤ 20%				
Case		Nickel-plated brass	Plastic	Nickel-plated brass	Plastic	
Flush Mou	ınting	Yes	No	Yes	No	
Protection	Degree	IP 67				
Operating Temperature		- 20 to +70 °C				
Output Connection		Cable PVC: L = 3 m Connector C			ector C	
Protective	Housing Model		S5913		S5913	

WIRING:



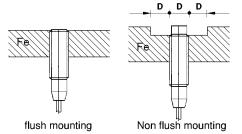
CONNECTOR:



MATING CONNECTORS:

ID# Type Description 4 wire S3496/2 C right angle w/ 2 meter cable S3496 C right angle w/ 5 meter cable S3499/2 C straight w/ 2 meter cable S3499 C straight w/ 5 meter cable right angle, terminal screws 030502C field wire-able 030503C straight, terminal screws field wire-able

MOUNTING:



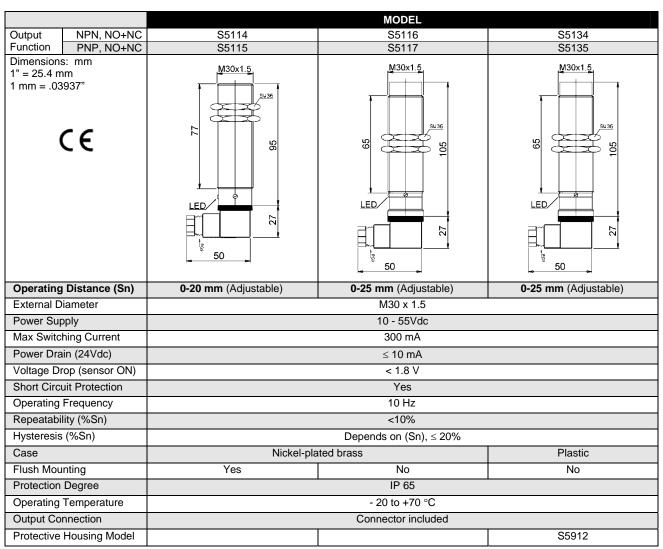
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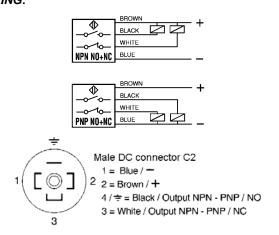
30 mm Diameter DC 4 Wire

FEATURES:

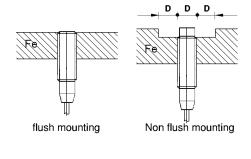
- Short circuit & reverse polarity protection
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- Field wire-able connector included



WIRING:



MOUNTING:



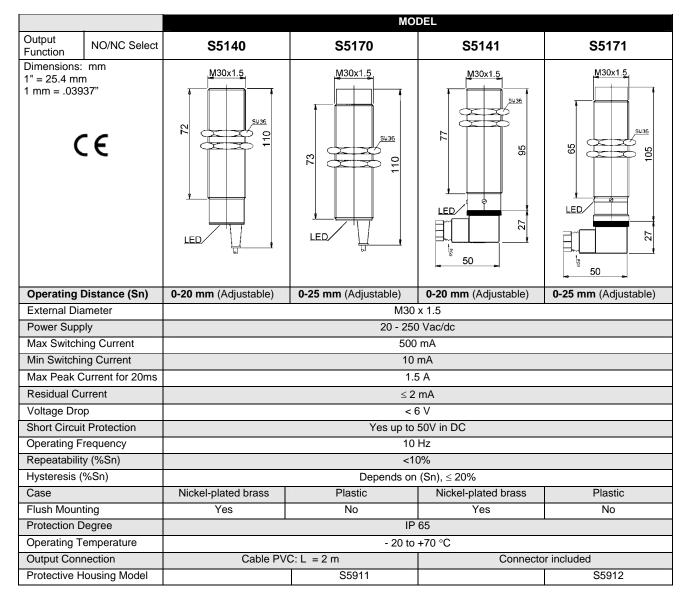
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30 mm Diameter AC/DC NO/NC Select

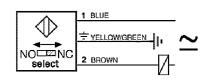
FEATURES:

- Short circuit protection up to 50V in DC
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- 5 and 10 meter cable lengths available upon request



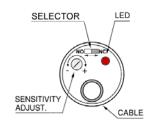
Attention must be paid to the minimum switching current, residual current and voltage drop when selecting low consumption relays or high impedance electronic controls to be used with these sensors. They are adapted for inputs of programmable controllers.

WIRING:



SELECTOR (NO/NC)

Before giving power to the sensor, program the sensor using the selector switch to the required function of NO (normally open) or NC (normally closed)



Sensor with connector removed



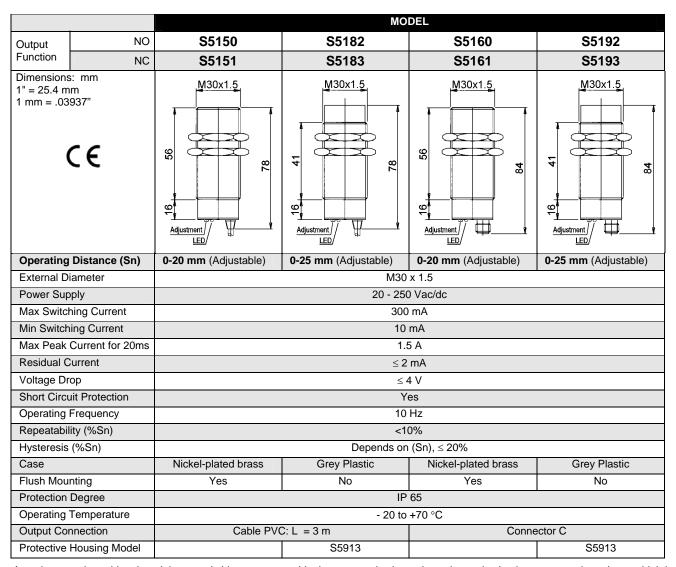
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30 mm Diameter AC/DC

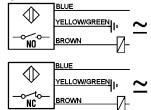
FEATURES:

- Short circuit & reverse polarity protection
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- 5 and 10 meter cable lengths available upon request



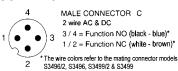
Attention must be paid to the minimum switching current, residual current and voltage drop when selecting low consumption relays or high impedance electronic controls to be used with these sensors. They are adapted for inputs of programmable controllers.

WIRING:



CONNETOR:

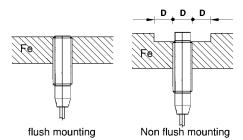
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MATING CONNECTORS:

ID#	Туре	Description
4 wire	_	
S3496/2	С	right angle w/ 2 meter cable
S3496	С	right angle w/ 5 meter cable
S3499/2	С	straight w/ 2 meter cable
S3499	С	straight w/ 5 meter cable
030502	С	right angle, terminal screws
		field wire-able
030503	С	straight, terminal screws
		field wire-able

MOUNTING:



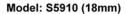
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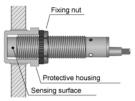


Protective Housing for Capacitive Sensors

This housing is a waterproof protective cover for select capacitive sensors. The housing is made of a non-toxic material (POM). This type of installation permits a sensor to be rapidly removed for testing without the loss of material from the container and protects the sensor from abrasion. Furthermore, the use of the housing eliminates, to a large degree, variation in the sensitivity of the sensor due to deposits of material. See sensor datasheet for the model that works with a particular sensor.



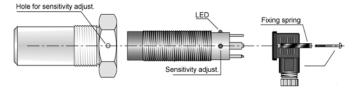




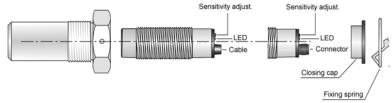
Model: S5911 (30mm)

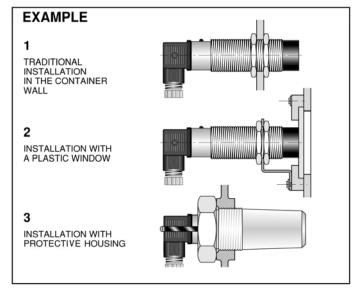


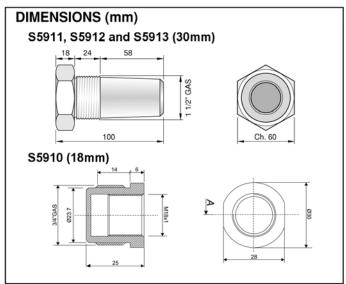
Model: S5912 (30mm)



Model: S5913 (30mm)

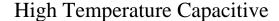


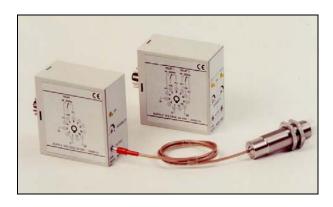




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FEATURES:

- Sensor temperature range –200 to +250° C (-382 to +482° F)
- Operating distance of 5 or 15mm
- Sensitivity adjustment
- Stainless steel sensor housing
- 18 and 30mm diameters
- One or two sensor amplifiers
- Sensor protection degree IP68: dust tight and protection against submersion

APPLICATIONS:

Typical applications include the level control of hot materials such as liquids, oils, powder and plastic granules. These sensors can also be used to sense solid metallic and non-metallic bodies positioned in areas of high temperature.

DESCRIPTION:

These high temperature sensors have an amplifier completely separate from the sensor. This allows the sensor to withstand temperatures from -200 to +250°C (-382 to +482°F). The amplifier is supplied in two different types, models S3624 & S3625, which is suitable for one sensor, and models S3626 & S3627, which is suitable for two sensors. The model S3624 & S3625 can be supplied with delayed sensing. The sensors are available in 18mm and 30mm diameters, made of stainless steel and PTFE. Each sensor's operating distance is adjustable. This sensitivity regulation is useful in applications such as detection of full containers and non-detection of empty containers.

OPERATING PRINCIPLE:

Capacitive proximity sensors use an oscillating field that can sense conductive and non-conductive materials (metals, liquids, glass, plastic, wood, paper and rubber). When an object enters this field, an electronic circuit begins to oscillate. The rise or fall of the oscillation is identified by a threshold circuit that drives an amplifier for the operation of an external load. The operating distance of the sensor depends on the target's shape and size and is strictly linked to the nature of the material (Table 1).

Capacitive sensors	3
Metal	~ 1 x Sn
Water	~ 1 x Sn
Plastic	~ 0.5 x Sn
Glass	~ 0.5 x Sn
Wood	~ 0.4 x Sn

Table 1. Sensitivity with different materials present. Sn=operating distance.

SPECIFICATIONS:

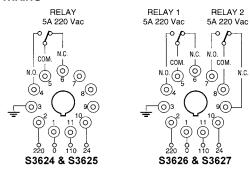
	S3620	S3621	S3622	S3623	
Sensor Model	M18 x 1	M18 x 1, 5m cable	M30 x 1.5	M30 x 1.5, 5m cable	
Operating distance	5n	nm	15mm		
Temperature range	-200 to +250 °C (-382 to +482° F)				
Degree of protection	IP68				
Housing	Housing and nuts Stainless steel AISI 303, Sensing part in PTFE				
Flush mounting	No				
Output connection	L=2m w/ plug connector	L=5m w/ plug connector	L=2m w/ plug connector	L=5m w/ plug connector	

Amplifier Model	S3624	S3625	S3626	S3627
Number of sensors	1		2	
Power supply	24 Vac 50-60 Hz 110/220 Vac 50-60 Hz		24 Vac 50-60 Hz	110/220 Vac 50-60 Hz
Absorption	3 VA			
Operation indicator	Yellow LED x 1		Yellow LED x 2	
Temperature range	-20 to +60 °C (-4 to +140 °F)			
Output relay	1 relay - changeo	ver, 5A @ 220Vac	2 relays - changeover, 5A @ 220Vac	
Housing	ABS			
Degree of protection	IP40			
Sensitivity adjustment	Incorporated			

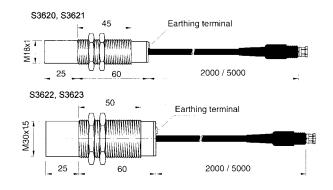
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WIRING



DIMENSIONS (mm) 1mm = .03937"

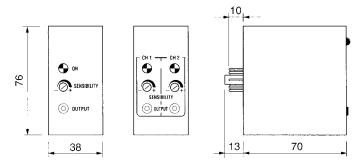


INSTALLATION INSTRUCTIONS

If the material to be controlled is in a metallic container, the container and terminal 3 of the amplifier must be grounded.

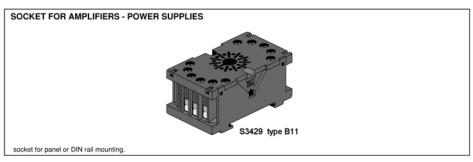
If the container is non-metallic, connect terminal 3 of the amplifier and the earthing terminal on sensor body to ground.

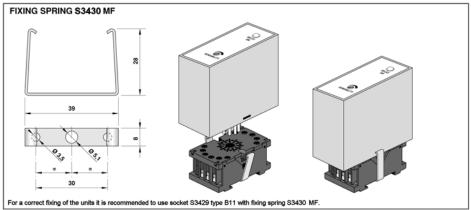
The connection wire between the sensor and the amplifier must be separated from the power supply.



For a correct fixing of the amplifiers socket S3429 type B11 and fixing spring type S3430 MF are required.

ACCESSORIES





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