

Inductive

12 mm Diameter DC 3/4 Wire

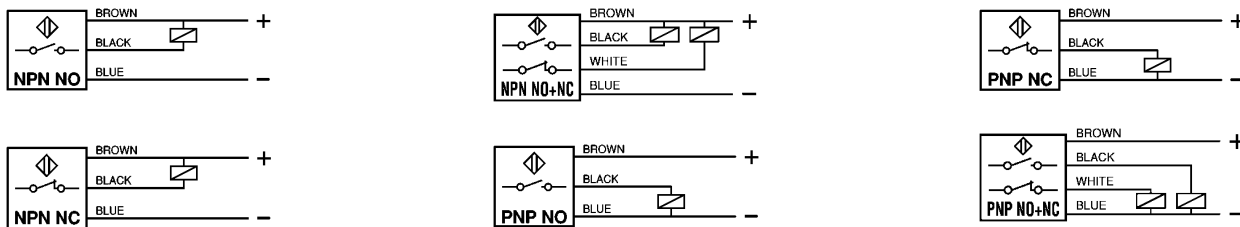
FEATURES:

- Short circuit & reverse polarity protection
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- +100° C high temperature version available upon request
- 5 and 10 meter cable lengths available upon request

		MODEL				TTL COMPATIBLE
Output Function	NPN, NO	S3450	S3454	S3030	S3034	S020
	NPN, NC	S3451	S3455	S3031	S3035	
	PNP, NO	S3452	S3456	S3032	S3036	
	PNP, NC	S3453	S3457	S3033	S3037	
	NPN, NO+NC	S3590	S3592	S3038	S3040	
	PNP, NO+NC	S3591	S3593	S3039	S3041	
Dimensions: mm 1 mm = .03937"						
Operating Distance (Sn)		2mm	4 mm	2 mm	4 mm	2 mm
External Diameter		M12 x 1				M12 x 1
Power Supply		10 - 30 Vdc				5 - 30 Vdc
Max Switching Current		200 mA				150 mA
Power Drain (24Vdc)		< 15 mA				6 mA
Voltage Drop (sensor ON)		< 1.8 V				< 0.7 V
Short Circuit Protection		Yes				No
Operating Frequency		1 kHz				2 kHz
Repeatability (%Sn)		≤ 3%				≤ 3%
Hysteresis (%Sn)		< 10%				< 10%
Case		Nickel-plated brass				
Flush Mounting		Yes	No	Yes	No	Yes
Protection Degree		IP 67				
Operating Temperature		- 25 to +70 °C *				
Output Connection		Cable PVC: L = 2 m		Connector C		Cable PVC: L = 2 m

* +100° C high temperature version available upon request

WIRING:



12 mm Diameter DC 3/4 Wire "Short Series"

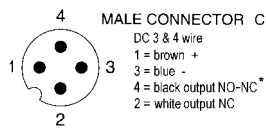
FEATURES:

- Extended operating distance
- Stainless steel case
- Short circuit & reverse polarity protection
- Protection degree IP67: dust tight and protection from the effects of immersion
- +100°C high temperature version available upon request
- 5 and 10 meter cable lengths available upon request

		MODEL			
Output Function	NPN, NO	S3050	S3660	S3054	S3664
	NPN, NC	S3051	S3661	S3055	S3665
	PNP, NO	S3052	S3662	S3056	S3666
	PNP, NC	S3053	S3663	S3057	S3667
	NPN, NO+NC	S3810		S3812	
	PNP, NO+NC	S3811		S3813	
Dimensions: mm 1 mm = .03937"					
CE					
Operating Distance (Sn)		4 mm	8 mm	4 mm	8 mm
External Diameter		M12 x 1			
Power Supply		10 - 30 Vdc			
Max Switching Current		200 mA			
Power Drain (24Vdc)		< 15 mA			
Voltage Drop (sensor ON)		< 1.8 V			
Short Circuit Protection		Yes			
Operating Frequency		1 kHz	600 Hz	1 kHz	600 Hz
Repeatability (%Sn)		≤ 3%			
Hysteresis (%Sn)		< 10%			
Case		Stainless Steel			
Flush Mounting		Yes	No	Yes	No
Protection Degree		IP 67			
Operating Temperature		- 25 to +70 °C *			
Output Connection		Cable PVC: L = 2 m		Connector C	

* +100° C high temperature version available upon request

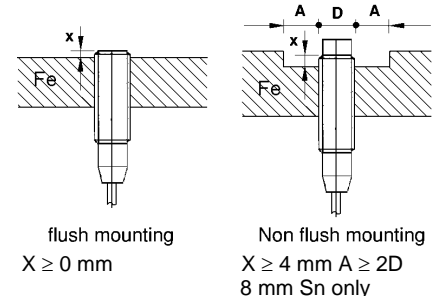
CONNECTOR:



* In the 3 wire sensors with type C connector and NC output the pins 2 & 4 are internally wired together

MATING CONNECTORS:

ID#	Type	Description
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
030502	C	right angle, terminal screws field wire-able
030503	C	straight, terminal screws field wire-able


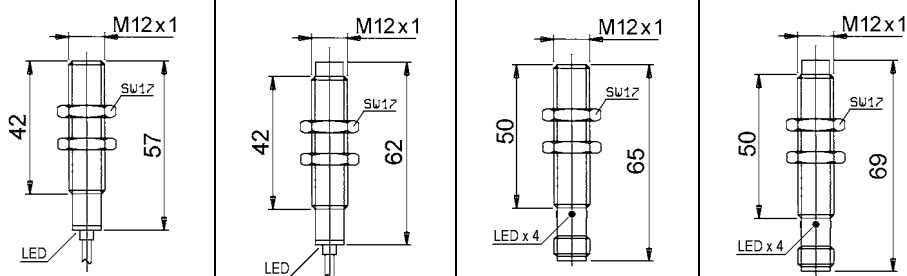


Inductive

12 mm Diameter DC 2 Wire

FEATURES:

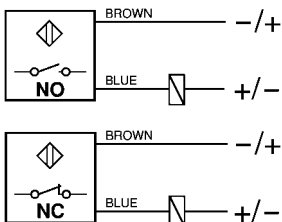
- Only 2 wires for easy installation
- Short circuit protection
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- +100° C high temperature version available upon request
- 5 and 10 meter cable lengths available upon request

		MODEL			
Output Function	NO	S3060	S3061	S3062	S3063
	NC	S3064	S3065	S3066	S3067
Dimensions: mm 1 mm = .03937" 					
Operating Distance (Sn)		2 mm	4 mm	2 mm	4 mm
External Diameter		M12 x 1			
Power Supply		10 - 55 Vdc			
Max Switching Current		100 mA			
Min Switching Current		1.5 mA			
Residual Current		< 0.6 mA			
Voltage Drop (sensor ON)		< 6.5 V			
Short Circuit Protection		Yes			
Operating Frequency		1 kHz			
Repeatability (%Sn)		≤ 3%			
Hysteresis (%Sn)		< 10%			
Case		Nickel-plated brass			
Flush Mounting		Yes	No	Yes	No
Protection Degree		IP 67			
Operating Temperature		- 25 to +70 °C *			
Output Connection		Cable PVC: L = 2 m		Connector C	

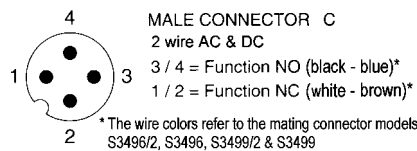
* +100° C high temperature version available upon request

These sensors contain an output amplifier with the function NO or NC that can pilot a load connected in series. In this system a residual current flows through the load even when in the open state and a voltage drop occurs to the sensor when it is in the closed state. Attention must be paid to these restrictions when selecting relays or electronic controls to be used with these sensors. They are adapted for inputs of programmable controllers.

WIRING:



CONNECTOR:



MATING CONNECTORS:

ID#	Type	Description
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
030502	C	right angle, terminal screws field wire-able
030503	C	straight, terminal screws field wire-able

12 mm Diameter AC 2 Wire

FEATURES:

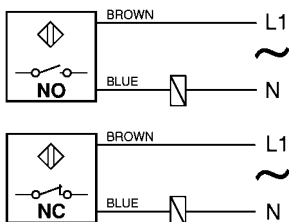
- Protection degree IP67: dust tight and protection from the effects of immersion
- LED function indicator
- +100° C high temperature version available upon request
- 5 and 10 meter cable lengths available upon request

		MODEL			
Output Function	NO	S3280	S3282	S3292	S3294
	NC	S3281	S3283	S3293	S3295
Dimensions: mm 1 mm = .03937"					
Operating Distance (Sn)		2 mm	4 mm	2 mm	4 mm
External Diameter		M12 x 1			
Power Supply		20 - 250 Vac			
Max Switching Current		300 mA			
Min Switching Current		5 mA			
Max Peak Current for 20ms		1.5 A			
Residual Current		< 1 mA			
Voltage Drop		< 6 V			
Operating Frequency		12 Hz			
Repeatability (%Sn)		≤ 3%			
Hysteresis (%Sn)		< 10%			
Case		Nickel-plated brass			
Flush Mounting		Yes	No	Yes	No
Protection Degree		IP 67			
Operating Temperature		- 25 to +70 °C *			
Output Connection		Cable PVC: L = 2 m		Connector C	

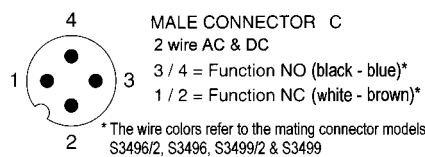
* +100° C high temperature version available upon request

These are two-wire sensors that contain a thyristor output amplifier in addition to the oscillator. 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:



CONNECTOR:



MATING CONNECTORS:

ID#	Type	Description
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
030502	C	right angle, terminal screws field wire-able
030503	C	straight, terminal screws field wire-able