S6 SERIES

The **S6** series, thanks to the excellent detection performances and the variety of power supply and connection possibilities, offers the most complete universal sensor range in the compact 50x50 mm housing.

The operating distance can be set to the optimal value in each model: 2 m diffuse proximity, 25 or 50 cm background suppression, 5 m polarised retroreflex, 1 m retroreflex versions for transparent objects and 20 m through beam. Proximity models with 12 to 110 cm background suppression are available. The free voltage versions have a relay output and cable connection. The versions with 10-30 Vdc power supply present cable connection and NPN/PNP output or M12 connector, with either PNP output with dark/light configuration and PNP double NO-NC output complying to the EN 60947-5-2 standard.















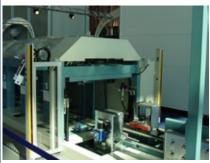


HIGHLIGHTS

- Background suppression models
- · Free voltage versions with relay output
- 10-30 Vdc version with transistor
- Standard cable or M12 connection

APPLICATIONS

Ceramics





Beverage & Bottling



Packaging lines

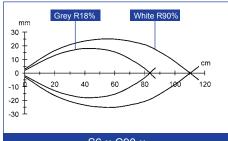


TECHNICAL DATA

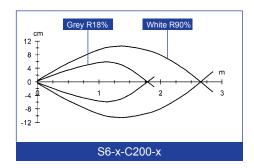
	10 30 Vdc (d.c. vers.), reverse polarity protection			
Power supply	15 264 Vac (free voltage vers.)			
	30 mA max. (d.c. vers.)			
Consumption	40 mA max. (free voltage vers.)			
	infrared LED 880 nm			
Light emission	red LED 660 nm (B3, T1, M10 vers.)			
	1 90 cm (C90 vers.)			
Diffuse proximity operating distance	5 200 cm (C200 vers.)			
	10 50 cm (M50 vers.)			
Background suppression op. distance	3 25 cm (M25 vers.), 10 cm (M10 vers.)			
Retroreflex operating distance	0.1 6 m (on R2)			
Polarised retroreflex operating distance	0.1 5 m (on R2)			
Through beam operating distance	0 20 m			
	sensitivity trimmer (G vers. excluded)			
Setting	distance adj. screw (M25, M50, N20 vers.)			
	red OUTPUT LED			
Indicators	green STABILITY LED (M, N vers.)			
	red POWER LED (G5 vers.)			
	NPN/PNP configurable (d.c. vers.)			
	PNP (S6T vers.)			
Output type	PNP NO-NC (S6R vers.)			
	relay SPDT 250V/3A (free voltage vers.)			
Saturation tension	1.5 V max. (d.c. vers.)			
	100 mA max., short-circuit protection			
Output current	3 A max. resistive load (free voltage vers.)			
	1 ms max. (d.c. vers.), 2 ms max. (F vers.)			
Response time	30 ms max. (free voltage vers.)			
	500 Hz max., 250 Hz max.(F/G vers. in d.c.)			
Switching frequency	16 Hz max. (free voltage vers.)			
Operating mode	dark/light configurable			
Auxiliary functions	'test +' and 'test -' inputs (G vers. in d.c.)			
	4-pole M12 connector (S6T/S6R vers.)			
Connection	2 m Ø 6 mm cable (S6 vers.)			
	class 1 (free voltage vers.)			
Electric protection	class 2 (d.c. vers.)			
Mechanical protection	IP65			
Housing material	ABS			
Lens material	PMMA plastic			
	40 g max. (connector vers.)			
Weight	160 g max. (cable vers.)			
Operating temperature	-25 +55°C			
Storage temperature	-25 +70°C			
Reference standard	EN 60947-5-2			
Certifications	((((d.c.vers.)			

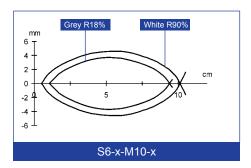
The operating distances indicate the detection distance with excess gain 2.

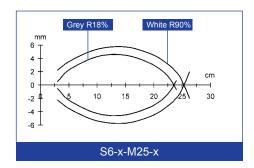
DETECTION DIAGRAMS

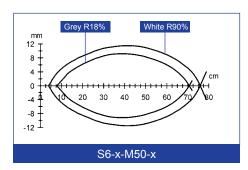


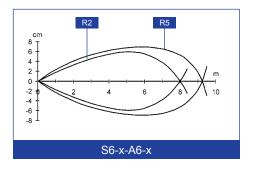
S6-x-C90-x

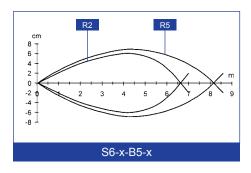


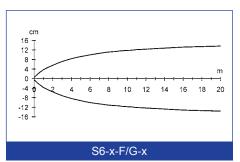




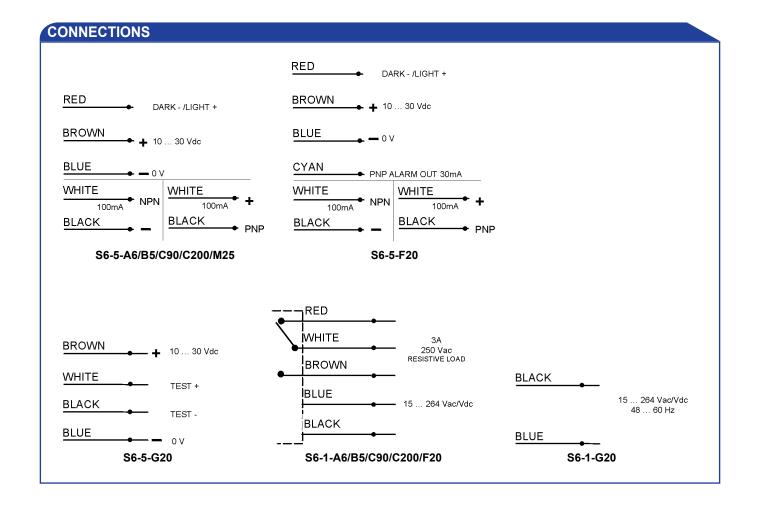


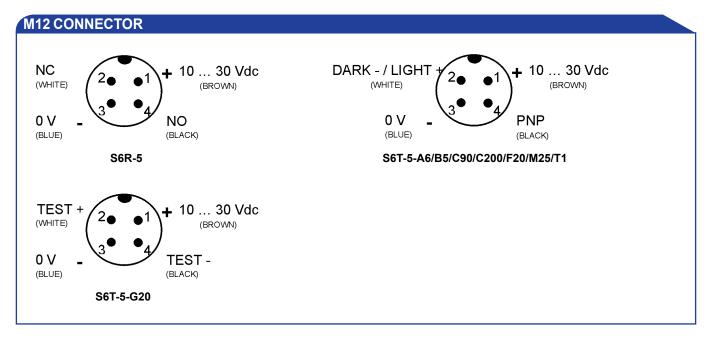




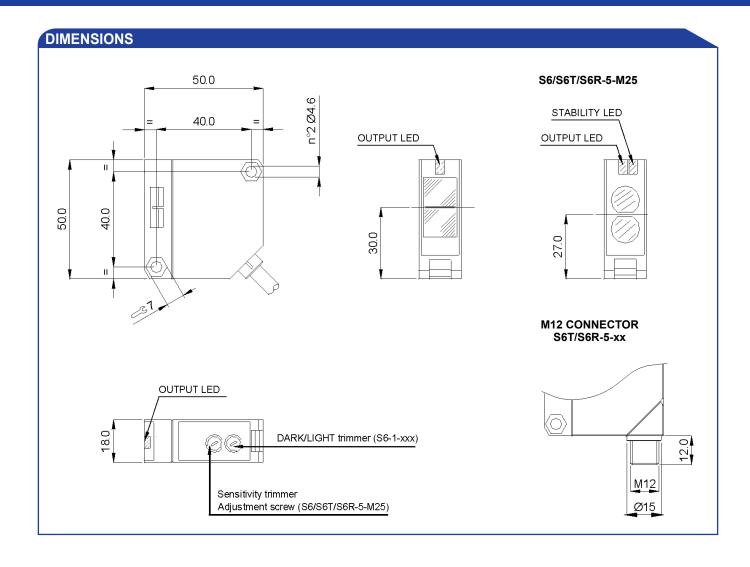


The detection diagrams indicate the typical operating distance with excess gain 1.





ODATALOGIC



MODEL SELECTION AND ORDER INFORMATION

VERSIONS WITH 15 264 Vac/Vdc POWER SUPPLY						
MODEL	FUNCTION	CONNECTION	OUTPUT	CODE N°		
S6-1-C90	diffuse proximity	cable	relay	S937530090		
S6-1-C200	diffuse proximity	cable	relay	950151140		
S6-1-A6	retroreflex	cable	relay	S937330090		
S6-1-B5	polarised retroreflex	cable	relay	S937420090		
S6-1-F20	receiver	cable	relay	S937200090		
S6-1-F20	emitter	cable	relay	S937130090		

VERSIONS WITH 15 264 Vac/Vdc POWER SUPPLY						
MODEL	FUNCTION	CONNECTION	OUTPUT	CODE N°		
S6-5-C90	diffuse proximity	cable	NPN/PNP	S937530000		
S6R-5-C90-P	diffuse proximity	M12 connector	PNP NO-NC	950201190		
S6T-5-C90-P	diffuse proximity	M12 connector	PNP **	961031020		
S6-5-C200	diffuse proximity	cable	NPN/PNP	950201150		
S6R-5-C200-P	diffuse proximity	M12 connector	PNP NO-NC	950201200		
S6R-5-M10-P	background suppression	M12 connector	PNP NO-NC	950201230		
S6-5-M25	background suppression	cable	NPN/PNP	S937830000		
S6R-5-M25-P	background suppression	M12 connector	PNP NO-NC	950201220		
S6T-5-M25-P	background suppression	M12 connector	PNP **	961041000		
S6R-5-M50-P	background suppression	M12 connector	PNP NO-NC	950201250		
S6-5-A6	retroreflex	cable	NPN/PNP	S937330000		
S6R-5-A6-P	retroreflex	M12 connector	PNP NO-NC	950201170		
S6T-5-A6-P	retroreflex	M12 connector	PNP **	961031000		
S6-5-B5	polarised retroreflex	cable	NPN/PNP	S937420000		
S6R-5-B5-P	polarised retroreflex	M12 connector	PNP NO-NC	950201180		
S6T-5-B5-P	polarised retroreflex	M12 connector	PNP **	961031010		
S6-5-F20	receiver	cable	NPN/PNP	S937200010		
S6R-5-F20-P	receiver *	M12 connector	PNP NO-NC	950201160		
S6T-5-F20-P	receiver	M12 connector	PNP **	961211010		
S6-5-G20	emitter	cable	-	S937130000		
S6T-5-G20	emitter	M12 connector	-	961211000		











The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.

^{*} use with S6T-5-G20 emitter
** with dark/light configuration input