# DATALOGIC

### **S5 SERIES**

The **S5** series offers a range of plastic tubular M18 photoelectric sensors. The most varied optic functions can be chosen amongst the fixed focus or diffuse proximity models with short, medium or long operating distances reaching 60 cm; the 4 m retroreflex, 3 m polarised retroreflex and 1 m for detection of transparent materials; the 12 m through beam and models with fibre-optic connection.

Different versions with either axial or radial optics are available. The series offers connector or cable connection, 3 wire Vac versions or 4 wire Vdc versions with complete configuration of the NPN/ PNP output and dark/light mode.

A red LED indicating the output status is visible on the bottom side of the sensor. The versions with trimmer adjustment present also a green LED signalling the switching stability according to the received signal's intensity. The rugged ABS housing always guarantees IP67 protection.



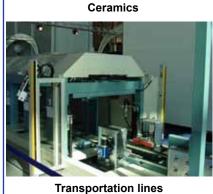
# SENSORS

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### HIGHLIGHTS

- Wide versatility of optic functions and connections
- High operating distances for all functions
- Models with trimmer adjustment and stability LED
- Rugged and impermeable plastic housing

### APPLICATIONS





Beverage & Bottling



Packaging lines

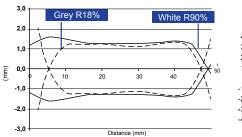


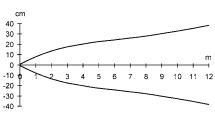
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		. DATA
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Power supply:	10 30 VDC (D.C. VERS.), REVERSE POLARITY PROTECTION		
	15 264 Vac (a.c. vers.)		
Consumption:	30 mA max. (d.c. vers.)		
· · · · · · · · · · · · · · · · · · ·	10 mA max. (a.c. vers.)		
Light emission:	infrared LED 880 nm		
	red LED 660 nm (B, E1 vers.)		
Diffuse proximity operating distance:	1 10 cm (C10 vers.), 1 8 cm (C8 vers.)		
	1 35 cm (C35 vers.), 1 30 cm (C30 vers.)		
	1 60 cm (C60 vers.)		
Fixed focus operating distance:	15 mm with 1 mm spot (D15 vers.)		
Tixed locus operating distance.	50 mm with 2 mm spot (D50 vers.)		
Retroreflex operating distance:	0.1 4 m (on R2)		
	0.1 3 m (on R2)		
Polarised retroreflex operating distance:	· · · · · ·		
Retroreflex for transparents op. distance:	0.1 0.8 m (on R2)		
Through beam operating distance:	0 12 m (F/G12 vers.), 0 8 cm (F/G8 vers.)		
Operating distance with fibre-optics:	22 mm proximity (with OF-18-ST)		
	85 mm through beam (with OF-19-ST)		
	refer to OF series for other fibres		
Setting:	sensitivity trimmer		
	(A4, C8, C10, D15, D50, G vers. excluded)		
Indicators:	red OUTPUT LED		
	green STABILITY LED (d.c. vers.)		
	red POWER LED (G vers.)		
Output type:	NPN or PNP configurable (d.c. vers.)		
	SCR + bridge rectifier (a.c. vers.)		
Saturation voltage:	2.5 V max. (vers. d.c.)		
Output current:	150 mA max.(vers. d.c.), short-circuit prot.		
	100 mA max.(vers. a.c.)		
Response time:	500 µs (D50 vers. )		
	1 ms max.		
	2 ms (F vers. in d.c.)		
	20 ms max. (a.c. vers.)		
Switching frequency:	1KHz (D50 vers.)		
	500 Hz max.		
	250 Hz max. (F vers. in d.c.)		
	25 Hz max. (a.c. vers.)		
Operating mode:	dark/light (configurable in 4 wires d.c. vers.)		
Auxiliary functions:	'test +' and 'test -' inputs (G vers. in d.c.)		
Connection:	4-pole M12 connector or 2 m Ø 5 mm cable		
Electrical protection:	class 1 (a.c. vers.); class 2 (d.c. vers.)		
Mechanical protection:	IP67		
Housing material:	ABS		
Lens material:	PMMA plastic		
Weight:	25 g max. (connector vers.); 100 g max. (cable vers.)		
Operating temperature:	-25 +55°C		
Storage temperature:	-25 +70°C		
Reference standard:	EN 60947-5-2		
Certifications: ( CE (Queenergy vers.d.c.)			
The operating distances indicate the detection distance with excess gain 2.			

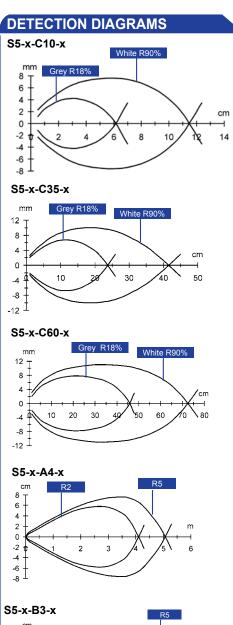
The operating distances indicate the detection distance with excess gain 2.

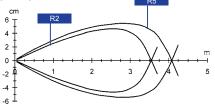
S5-5-D50-92



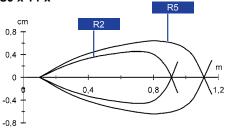


S5-x-F/G-x





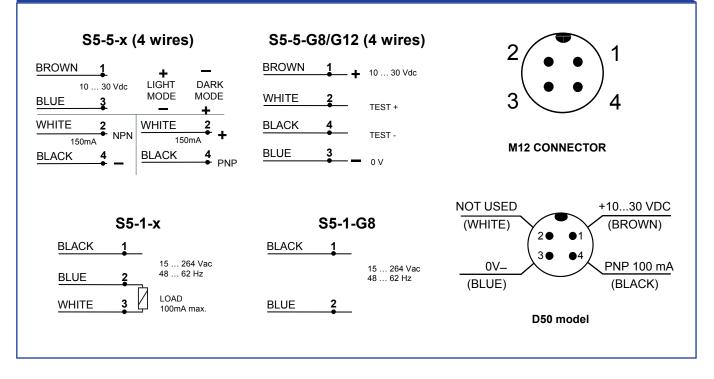
S5-x-T1-x

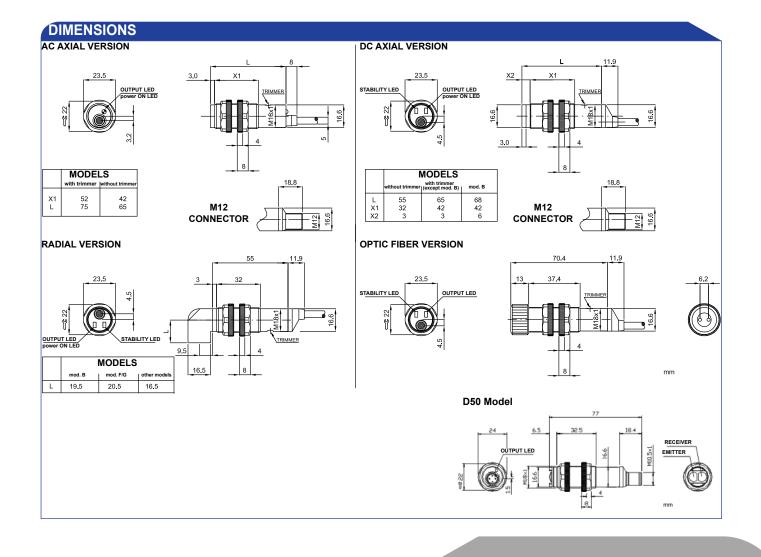


The detection diagrams indicate the typical operating distance with excess gain 1.

## DATALOGIC

### CONNECTIONS





### MODEL SELECTION AND ORDER INFORMATION

	AXIAL OPTIC VERSIONS		RADIAL OPTIC VERSIONS	
4 WIRE CONNECTION 10-30Vdc	4 POLE CABLE	M12 CONN.	4 POLE CABLE	M12 CONN.
Short distance diffuse proximity	S5-5-C10-30 (G5210530)	S5-5-C10-32 (G5210532)	S5-5-C10-35 (G5210535)	S5-5-C10-37 (G5210537)
Medium distance diffuse proximity	S5-5-C35-30 (G5210630)	S5-5-C35-32 (G5210632)	S5-5-C35-35 (G5210635)	S5-5-C35-37 (G5210637)
Long distance diffuse proximity	S5-5-C60-30 (952051640)	S5-5-C60-32 (952051650)		
Fixed focus proximity	S5-5-D15-30 (G5210430)	S5-5-D15-32 (G5210432)	S5-5-D15-35 (G5210435)	S5-5-D15-37 (G5210437)
Retroreflex	S5-5-A4-30 (G5210230)	S5-5-A4-32 (G5210232)		
Polarised retroreflex	S5-5-B3-30 (G5210730)	S5-5-B3-32 (G5210732)	S5-5-B3-35 (G5210735)	S5-5-B3-37 (G5210737)
Retroreflex for transparents	S5-5-T1-30 (952051680)	S5-5-T1-32 (952051690)		
Through beam receiver	S5-5-F12-30 (G5210130)	S5-5-F12-32 (G5210132)	S5-5-F8-35 (G5210135)	S5-5-F8-37 (G5210137)
Through beam emitter	S5-5-G12-00 (G5210000)	S5-5-G12-02 (G5210002)	S5-5-G8-05 (G5210005)	S5-5-G8-07 (G5210007)
Fibre-optic amplifier	S5-5-E1-30 (G5210830)	S5-5-E1-32 (G5210832)		
3 WIRE CONNECTION 10-30Vdc	4 POLE CABLE	M12 CONN.	4 POLE CABLE	M12 CONN.
Fixed focus proximity		S5-5-D50-92 (952051940)		
3 WIRE CONNECTION 15 - 264 Vac	CABLE - dark mode	CABLE - light mode	CABLE - dark mode	CABLE - light mode
Short distance diffuse proximity	S5-1-C8-10 (G5110510)	S5-1-C8-20 (G5110520)	S5-1-C8-15 (G5110515)	S5-1-C8-25 (G5110525)
Medium distance diffuse proximity	S5-1-C30-10 (G5110610)	S5-1-C30-20 (G5110620)	S5-1-C30-15 (G5110615)	S5-1-C30-25 (G5110625)
Fixed focus proximity	S5-1-D15-10 (G5110410)	S5-1-D15-20 (G5110420)		
Retroreflex	S5-1-A2-10 (G5110210)	S5-1-A2-20 (G5110220)	S5-1-A2-15 (G5110215)	S5-1-A2-25 (G5110225)
Through beam receiver	S5-1-F8-10 (G5110110)	S5-1-F8-20 (G5110120)		
Through beam emitter	S5-1-G8-00 (G5110000)		S5-1-G8-05 (G5110005)	

ACCESSORY SELCTION AND ORDER INFORMATION					
MODEL	DESCRIPTION	CODE N°			
SP-40	fixed support for tubular M18 sensors	95ACC1370			
SWING-18	adjustable support for plastic tubular M18 sensors	895000006			

Please refer also to Sensor Accessories

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.