M18 SENSORS WITH LASER EMISSION





- Visible red class 1 laser emission
- Proximity models for high-resolution detections
- Retroreflex and through beam versions for long operating distances
- Trimmer sensitivity adjustment and stability LED

SL5 SERIES

The **SL5** sensors, thanks to the laser emission concentrated in a thin light beam, represent the ideal solution for the detection of very small objects or to reach very long operating distances.

Precise detections with decimillimetre resolutions can be obtained with the proximity model at an operating distance ranging from 0 to 35 cm.

High operating distances can be reached with the 12 m polarised retroreflex model, or with the 60 m through beam model; high-resolution detections at shorter distances can be effected also.

The visible red emission is generated by a Class 1 laser according to the EN 60825-1, guaranteeing the maximum safety in all applications.

The sensitivity adjustment trimmer and the LEDs indicating the output status and switching stability are positioned on the sturdy ABS tubular M18 housing with IP67 protection.







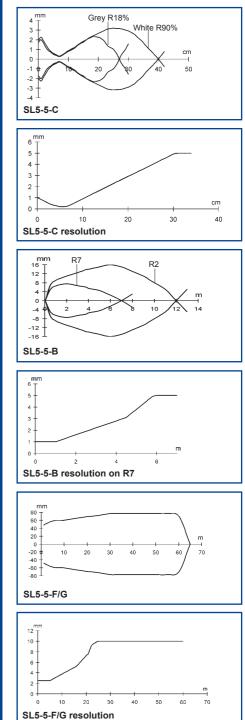
TECHNICAL DATA

Power supply:	10 30 Vdc, reverse polarity protection			
Consumption:				
Light emission:				
Light childsion.	safety class 1 according to EN 60825-1			
Diffuse proximity operating distance:	, 0			
Diffuse proximity resolution:				
Diffuse proximity resolution.	1 mm at a distance of 10 cm			
	3 mm at a distance of 20 cm			
Delevie eductive offers en enetine distances	5 mm at distances over 30 cm			
Polarised retroreflex operating distance:				
	0.3 7 m (on R7)			
Polarised retroreflex resolution:				
	2 mm at a distance of 3 m (on R7/R8)			
	4 mm at a distance of 5 m (on R7)			
	5 mm at distances over 7 m (on R2)			
Through beam operating distance:				
Through beam resolution:	2.5 mm at a distance of 5 m			
	5 mm at a distance of 10 m			
	10 mm at distances over 20 m			
Setting:	sensitivity trimmer			
Indicators:	yellow OUTPUT LED			
	green POWER LED (G. vers.)			
	green STABILITY LED			
Output type:	PNP or NPN, open collector			
Saturation voltage:	2 V max.			
Output current:	100 mA max., short-circuit protection			
Response time:	333 μs max.			
Switching frequency:	1.5 kHz max			
Operating mode:	-			
Auxiliary functions:				
Connection:	4-pole M12 connector			
Electrical protection:	class 2			
Mechanical protection:	IP67			
Housing material:	ABS			
Lens material:	. PMMA plastic			
Weight:	30 g max.			
Operating temperature:	10 +50°C			
Storage temperature:	25 +70°C			
Reference standard:	EN 60947-5-2, EN 60825-1			
Certifications:				

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







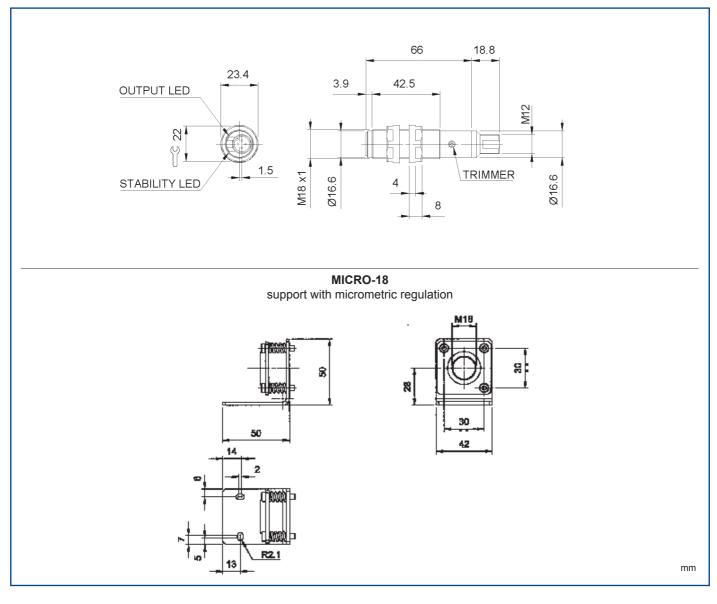
The detection diagrams indicate the typical operating distance with excess gain 1.



CONNECTIONS



DIMENSIONS





MODELS

MODEL	FUNCTION	CONNECTION	OUTPUT	CODE N°
SL5-5-B-82	polarised retroreflex	M12 connector	PNP-dark	952501010
SL5-5-B-92	polarised retroreflex	M12 connector	PNP-light	952501080
SL5-5-C-82	diffuse proximity	M12 connector	PNP-dark	952501090
SL5-5-C-92	diffuse proximity	M12 connector	PNP-light	952501000
SL5-5-F-82	receiver	M12 connector	PNP-dark	952501020
SL5-5-F-92	receiver	M12 connector	PNP-light	952501050
SL5-5-G-82	emitter	M12 connector	-	952501030
SL5-5-B-62	polarised retroreflex	M12 connector	NPN-dark	952501070
SL5-5-B-72	polarised retroreflex	M12 connector	NPN-light	952501100
SL5-5-C-62	diffuse proximity	M12 connector	NPN-dark	952501110
SL5-5-C-72	diffuse proximity	M12 connector	NPN-light	952501040
SL5-5-F-62	receiver	M12 connector	NPN-dark	952501060
SL5-5-F-72	receiver	M12 connector	NPN-light	952501120

ACCESSORIES

DESCRIPTION	CODE N°
Ø 20 mm reflective tape with Ø 34 mm support	S940200020
Ø 23 mm prismatic reflector with Ø 31 mm support	S940700023
Ø 48 mm prismatic reflector with Ø 63 mm support	S940700048
18 x 54 mm prismatic reflector with 22 x 82 mm support	S940700972
47 x 47 mm prismatic reflector with 51.5 x 61 mm support	95A151010
Ø 75 mm prismatic reflector with Ø 82 mm support	S940700075
36 x 55 mm prismatic reflector with 40.5 x 60 mm support	95A151020
38 x 40 mm microprism reflector with 51 x 60.7 mm support	95A151050
9.7 x 19 mm microprism reflector with 13.8 x 23 mm support	95A151060
Ø 48 mm prismatic reflector with CH.52 mm hexagon support	S940710048
fixed support for tubular M18 sensors	95ACC1370
adjustable support for tubular M18 sensors	895000006
support with micrometric regulation for tubular M18 sensors	95ACC1380
	 Ø 20 mm reflective tape with Ø 34 mm support Ø 23 mm prismatic reflector with Ø 31 mm support Ø 48 mm prismatic reflector with Ø 63 mm support 18 x 54 mm prismatic reflector with 22 x 82 mm support 47 x 47 mm prismatic reflector with 51.5 x 61 mm support Ø 75 mm prismatic reflector with Ø 82 mm support 36 x 55 mm prismatic reflector with 40.5 x 60 mm support 38 x 40 mm microprism reflector with 51 x 60.7 mm support 9.7 x 19 mm microprism reflector with 13.8 x 23 mm support Ø 48 mm prismatic reflector with CH.52 mm hexagon support fixed support for tubular M18 sensors adjustable support for tubular M18 sensors

Please refer also to Sensor Accessories

Distributed by:

HEADQUARTERS

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