

LIGHT BEAM DEVICES WITH LASER EMISSION



- *Type 4 emitter-receiver photoelectric sensors with Test input*
- *Used with SB-BWS-T4 control unit*
- *Visible class 1 and class 2 red laser emission*
- *Operating distance reaching 40 m*

SL5-F/G-ST4 SERIES

The **SL5-F/G-ST4** series emitter-receiver photoelectric sensors are homologated to be connected to the safety control units of the SB-BWS-T4 series, forming a type 4 safety system in conformity to the EN 954-1 European standard.


Thanks to the laser emission, concentrated in a thin light beam, the sensors of the **SL5-F/G-ST4** series represent the ideal solution to obtain easy alignment of the safety sensors reaching high operating distances (40 m).

The visible red emission is generated by a laser that, complying to the EN 60825-1 standard, guarantees maximum operator safety in all applications that need access protection to dangerous machines.

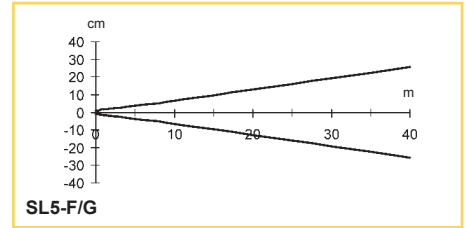
An emitter model with class 1 laser emission, the safest for operators that can be hit by luminous beams, ideal for standard applications is available, as well as a class 2 laser emission model, with a more visible optic beam, ideal for particular critical applications in terms of operating distance or using need deviating mirrors.

Two LEDs indicating the output and switching stability, clearly visible on the sturdy ABS housing, facilitate the correct installation of the device.

TECHNICAL DATA

Power supply:	10 ... 30 Vdc, reverse polarity protection
Consumption:	35 mA max.
Ligth emission:	red laser 650 nm safety class 1 according to EN 60825-1 safety class 2 according to EN 60825-1
Through beam operating distance:	0 ... 40 m
Indicators:	yellow OUTPUT LED (F vers.) green POWER LED (G vers.) green STABILITY LED (F vers.)
Output type:	PNP
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:	light
Auxiliary functions:	Test (+) input
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 954-1, EN 61496-1, IEC 61496-2
Certifications:	CE 

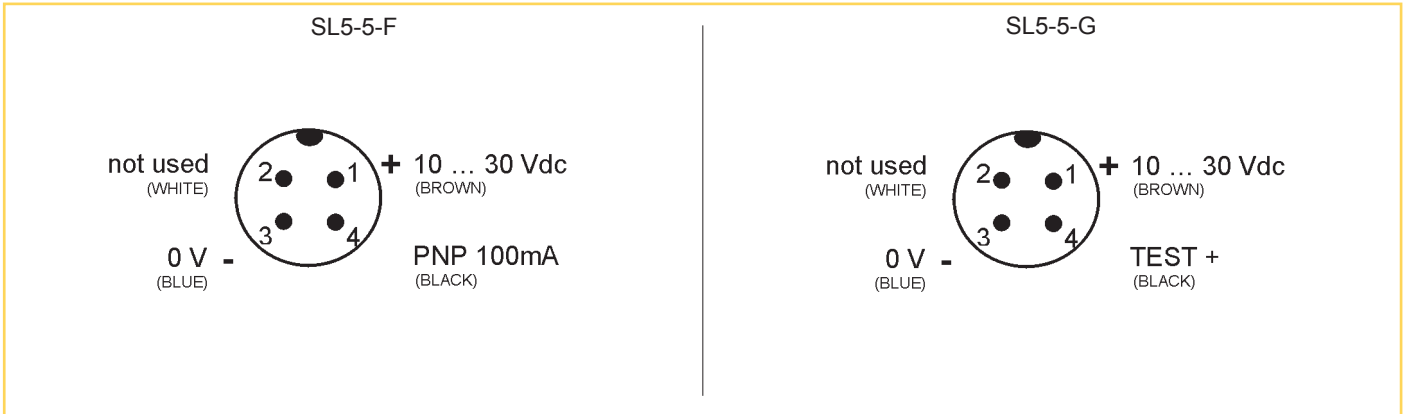
DETECTION DIAGRAMS



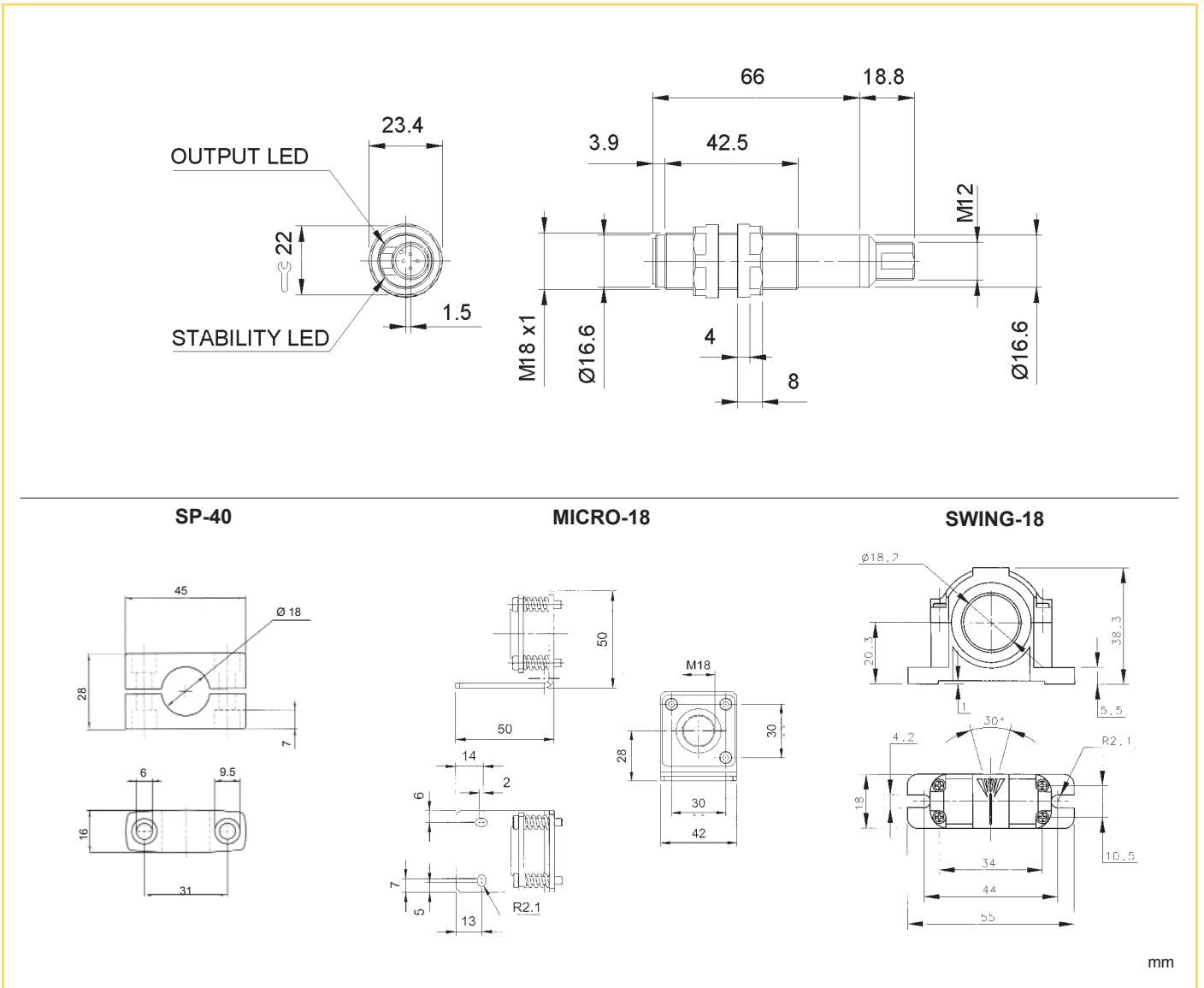
Effective aperture angle (EAA)

The operating distances indicate the detection with excess gain 2.

CONNECTIONS



DIMENSIONS



MODEL

MODEL	FUNCTION	CONNECTION	CODE N°
SL5-5-G-82-ST4	classe 1 laser emitter	M12 connector	952501140
SL5-5-G-83-ST4	classe 2 laser emitter	M12 connector	952501150
SL5-5-F-92-ST4	receiver	M12 connector	952501130

ACCESSORIES

MODEL	DESCRIPTION	CODE N°
SP-40	fixed support for tubular M18 sensors	95ACC1370
SWING-18	adjustable support for tubular M18 sensors	895000006
MICRO-18	support with micrometric regulation for tubular M18 sensors	95ACC1380
CV-A1-21-G-10	axial M12 3-pole shielded 10 m connector	95ACC2060

Please refer also to **Sensor Accessories**

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HEADQUARTERS

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