

S5 / SL5

SINGLE BEAM SAFETY SENSOR SAFETY CONTROL UNITS



- Installation Flexibility
- Long distance
- Low temperature with defogging function
- 4 safety areas controlled with one unit
- Double muting

SENSORS

- Emitter-receiver photocells with test input
- Type 2 and Type 4 models
- Plastic tubular and MAXI formats
- Up to 50m operating distance
- Class 1 red laser emission models up to 40
- Standard M12 connectors

CONTROL UNITS:

- Integrated control of 4 single beams and 2 light curtains
- Simple DIP Switch configuration
- Muting functions can be assigned to light curtains or single beams

Detection properties

Nominal sensing distance	0 ... 8 m
Resolution	Single-beam
controlled height	Single-beam
Sensitivity adjustment	Trimmer
Effective Aperture Angle	$\leq \pm 5^\circ$

Application

Function Principle	Receiver
Control unit to be used	SG-BWS-T4 Series
Description	M18 Type 4 Safety Photocell Receiver

Functions

Receiver for SG-BWS-T4

Safety parameters

Type	Type 2 safety photocell
PL	n/a
PFHd	n/a

Outputs

Output type	PNP
Output Function	To be connected to SG-BWS-T4 Safety Control Unit Series
Response time	1 ms

Electrical data

Operating Voltage	24 Vdc \pm 15%
No-Load supply current	\leq 30mA
Load current	\leq 100mA
Output voltage drop	
LED indicators	Yellow (RED) - Green (STABILITY)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	n/a
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	>20 M Ω 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing

Mechanical data

Dimensions	\emptyset 18x77
Housing Material	Plastic - PBT / PMMA
Connections	M12 plug
Active Head Material	PMMA
Storage temperature	-25...+70°C
Material	
Diameter/Dimension	
Vibrations	Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN 60068-2-6)
Shocks	16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)

Test/Approvals

Approvals	CE, cULus
Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

Accessories

Supplied Accessories	2 x nuts
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Generical Data

Dimensions	M18
Operating Temperature	- 25...+55°C (Without freeze)

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