

S5 / SL5



952501170

SL5-5-F-92-SG-ST4

SINGLE BEAM SAFETY SENSOR SAFETY CONTROL UNITS

OVERVIEW

- 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

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0 ... 40 m
--------------------------	------------

Resolution	Single-beam
------------	-------------

controlled height	Single-beam
-------------------	-------------

Sensitivity adjustment	Trimmer
Effective Aperture Angle	$\leq \pm 2,5^\circ$

Application

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

Safety parameters

Type	Type 4 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
Switching frequency	
Response time	1 ms

Electrical data

Operating Voltage	24 Vdc $\pm 15\%$
-------------------	-------------------

No-Load supply current	≤ 35mA
Load current	≤ 100mA
LED indicators	Yellow (OUTPUT) - 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 MΩ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing

Mechanical data

Dimensions	Ø18x66
Housing Material	Plastic ABS / 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, 1 octave/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
----------------------	----------

Generical Data

Dimensions	M18
Operating Temperature	-20...+55°C (Without freeze)
Mechanical Protection	IP67

Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of
printing**
01/04/2026
20:25:06