



# S300-SG-ST2/ST4

951451340

**S300-PR-5-F00-OC-SG-ST2**

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 ... 50 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	MAXI Type 2 Safety Photocell Receiver
Optic position	Radial 90°
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 connectred to SG-BWS-T4 Safety Control Unit Series
Switching frequency	
Response time	1 ms

Electrical data

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Operating Voltage	24 Vdc ±15%
No-Load supply current	
Load current	
Output voltage drop	
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	25x85x70
Housing Material	PBT Fiber Glass reinforced
Connections	M12 plug
Active Head Material	PMMA
Storage temperature	-25...+70°C

Material	Plastic - PBT / PC
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)

Generical Data

Dimensions	MAXI
Operating Temperature	- 25...+55°C (Without freeze)
Mechanical Protection	IP67

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