

## S300-SG-ST2/ST4

951451390

S300-PR-5-F00-OC-M-SG-ST4
SINGLE BEAM SAFETY SENSORSSAFETY 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 Switth configuration
- Muting functions can be assigned to light curtains or single beams

## TECHNICAL FEATURES

#### Detection properties

Nominal sensing distance 9 ... 40 m

Resolution Single-beam

controlled height Single-beam

| Sensitivity adjustment   | Trimmer   |
|--------------------------|---|
| Effective Aperture Angle | ≤±2,5°  |
| Application              |   |
| Function Principle       | Receiver  |
| Control unit to be used  | SG-BWS-T4 Series  |
| Description              | MAXI Type 4 Safety Photocell Receiver with Defogging System |
| Optic position           | Radial 90°  |
| Functions                | Receiver with defogging for SG-BWS-T4                       |
| Safety parameters        |   |
| Туре                     | Type 4 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

| 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 M $\Omega$ 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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