

# S5 / SL5



952051930

S5-5-F8-92-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 Switch configuration
- Muting functions can be assigned to light curtains or single beams

## TECHNICAL FEATURES

### Detection properties

|                          |           |
|--------------------------|-----------|
| Nominal sensing distance | 0 ... 8 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 Safety Photocell Receiver |
| Functions               | Receiver for SG-BWS-T4               |

Safety parameters

|      |                         |
|------|-------------------------|
| Type | Type 4 safety photocell |
| PL   | n/a                     |

Outputs

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

Electrical data

|                        |                     |
|------------------------|---------------------|
| Operating Voltage      | 24 Vdc $\pm 15\%$   |
| No-Load supply current | $\leq 30\text{mA}$  |
| Load current           | $\leq 100\text{mA}$ |

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| 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 MΩ 500 Vdc, between electronics and housing |
| Contact resistance               | 500 Vac 1 min., between electronics and housing |

**Mechanical data**

|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| Dimensions           | Ø18x77                                                                              |
| Material             |                                                                                     |
| Housing material     | Plastic - PBT / PMMA                                                                |
| Connections          | M12 plug                                                                            |
| Active Head Material | PMMA                                                                                |
| Storage temperature  | -25...+70°C                                                                         |
| 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 |
|----------------------|----------|

#### Generical Data

|            |     |
|------------|-----|
| Dimensions | M18 |
|------------|-----|

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

|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

#### UNASSIGNED

|                |     |
|----------------|-----|
| Disegno 2D PDF | n/a |
|----------------|-----|

#### **Datasensing S.r.l.**

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

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