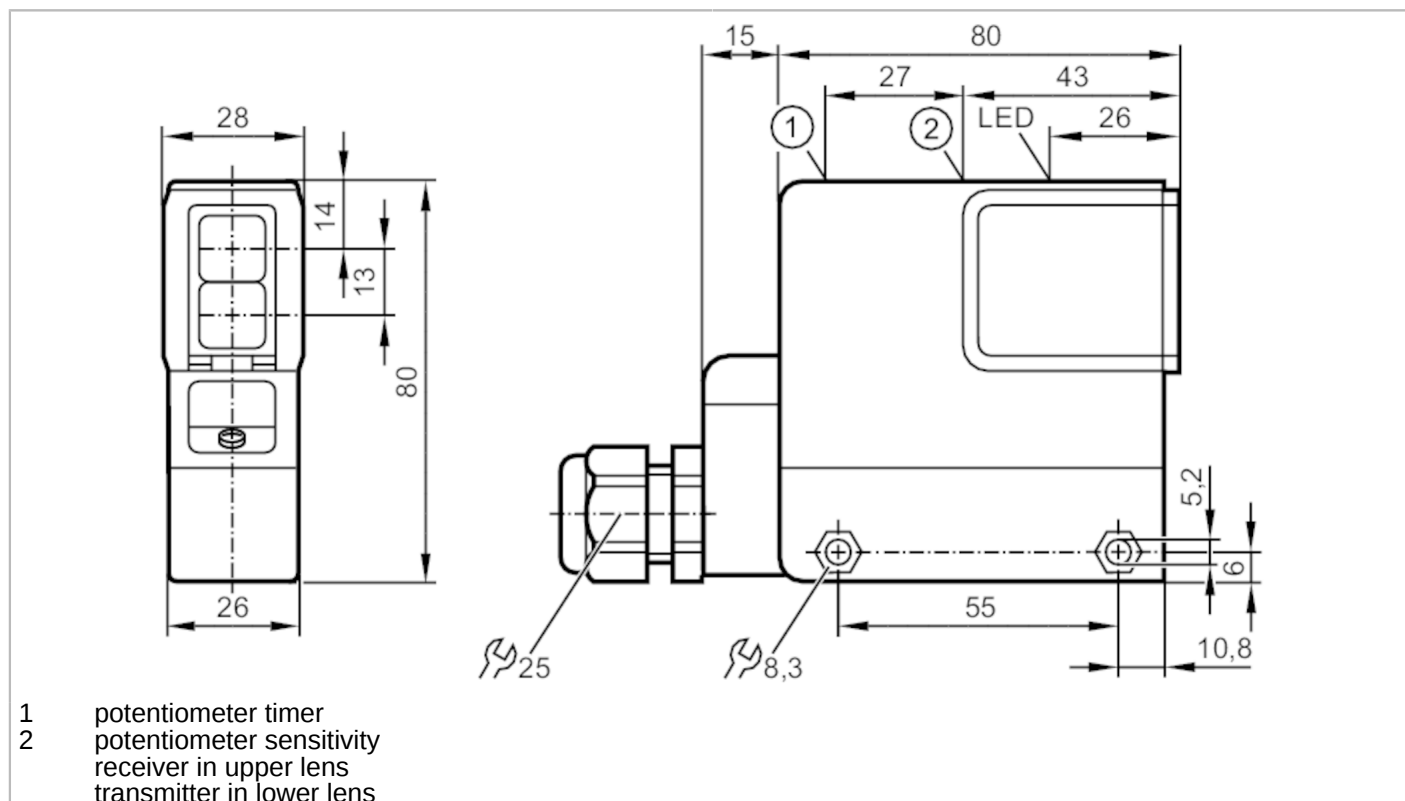


# OS0031



## Diffuse reflection sensor

OST-FBOA/T



### Application

Function principle

Diffuse reflection sensor

### Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 20...250 AC/DC |
| Protection class            |      | II             |
| Reverse polarity protection |      | no             |
| Type of light               |      | infrared light |
| Wave length                 | [nm] | 880            |

# OS0031



## Diffuse reflection sensor

OST-FBOA/T

| Outputs  |                  |  |
|--|------------------|--|
| Output function                                      |                  | light-on/dark-on mode; (programmable)                    |
| Max. voltage drop switching output DC [V]            |                  | 10.5   |
| Max. voltage drop switching output AC [V]            |                  | 10.5   |
| Minimum load current [mA]                            |                  | 15   |
| Max. leakage current [mA]                            |                  | 8  |
| Permanent current rating of switching output AC [mA] |                  | 250; (350 (...50 °C))                                    |
| Permanent current rating of switching output DC [mA] |                  | 250; (350 (...50 °C))                                    |
| Short-time current rating of switching output [mA]   |                  | 2200; (10 ms / 0,5 Hz)                                   |
| Switching frequency AC [Hz]                          |                  | 25   |
| Switching frequency DC [Hz]                          |                  | 25   |
| Short-circuit proof                                  |                  | no   |
| Overload protection                                  |                  | no   |
| Time function [s]                                    |                  | 0.01...5   |
| Detection zone                                       |                  |  |
| Range [mm]   |                  | < 1000; (white paper 200 x 200 mm)                       |
| Range adjustable                                     |                  | yes  |
| Operating conditions                                 |                  |  |
| Ambient temperature [°C]                             |                  | -25...80   |
| Protection   |                  | IP 65  |
| Tests / approvals                                    |                  |  |
| EMC  | EN 60947-5-2     |  |
|  | EN 55011         | class B  |
| MTTF [years]   |                  | 261  |
| Mechanical data                                      |                  |  |
| Weight [g]   |                  | 269  |
| Housing  |                  | rectangular  |
| Dimensions [mm]                                      |                  | 80 x 28 x 95   |
| Materials  |                  | PPO modified   |
| Lens material  |                  | glass  |
| Lens alignment                                       |                  | side lens  |
| Displays / operating elements                        |                  |  |
| Display  | switching status | 1 x LED, yellow  |
| Electrical connection                                |                  |  |
| Required protection                                  |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |
| Accessories  |                  |  |
| Accessories (supplied)                               |                  | Angle bracket: 1 x, E20210<br>screwdrivers               |

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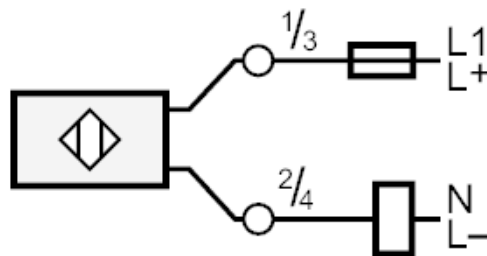
## Diffuse reflection sensor

OST-FBOA/T

| Remarks       |   |
|---------------|---|
| Remarks       | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Notes         | discontinued article  |
| Pack quantity | 1 pcs.  |

**Electrical connection**  
terminals: ...1.5 mm<sup>2</sup>; Cable gland: M20 X 1.5

### Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting