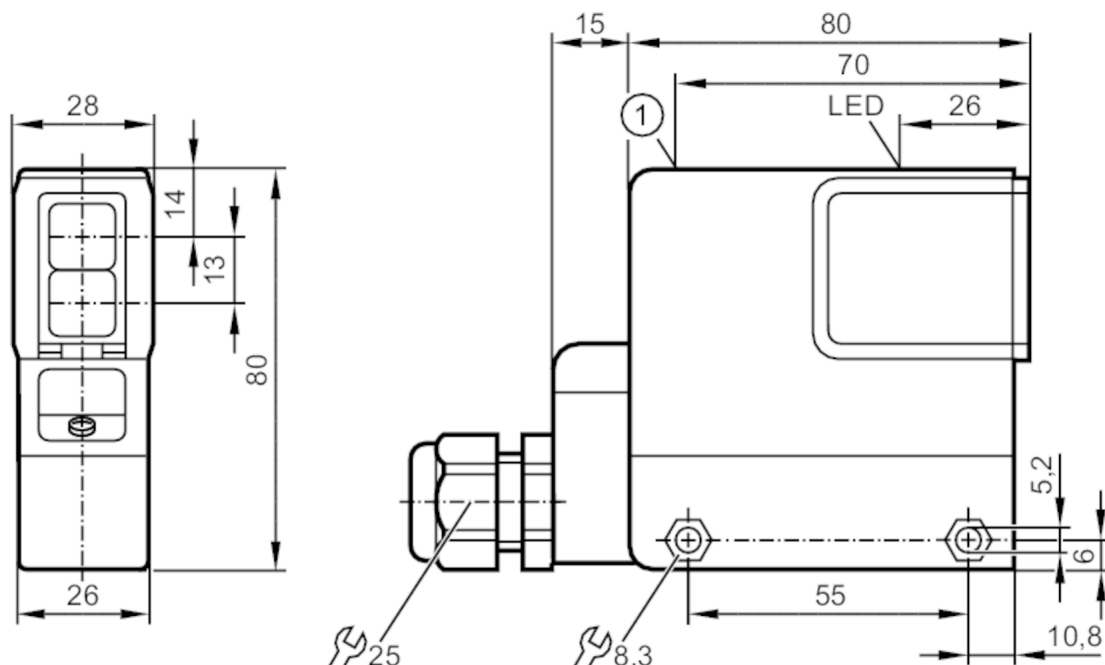


## Diffuse reflection sensor

OSN-FBOA

phase-out article



- 1 potentiometer sensitivity  
receiver in upper lens  
transmitter in lower lens



## Product characteristics

|               |                |
|---------------|----------------|
| Type of light | infrared light |
| Housing       | rectangular    |

## Application

|                    |                                            |
|--------------------|--------------------------------------------|
| Special feature    | Diffuse reflection sensor for short ranges |
| 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            |

## 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] | 6                                     |
| Permanent current rating of switching output AC | [mA] | 250; (350 (...50 °C))                 |



## Diffuse reflection sensor

OSN-FBOA

|                                                 |      |                        |
|-------------------------------------------------|------|------------------------|
| 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                     |

## Detection zone

|                                            |      |                                   |
|--------------------------------------------|------|-----------------------------------|
| Range                                      | [mm] | < 220; (white paper 200 x 200 mm) |
| Diffuse reflection sensor for short ranges |      | yes                               |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 65    |

## Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [ANN]        | 302     |

## Mechanical data

|                |      |              |
|----------------|------|--------------|
| Weight         | [g]  | 262.6        |
| 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 |
|---------------------|--|----------------------------------------------------------|

## Аксессуары

|                |  |                          |
|----------------|--|--------------------------|
| Items supplied |  | Angle bracket: 1, E20210 |
|                |  | screwdrivers             |

## Remarks

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



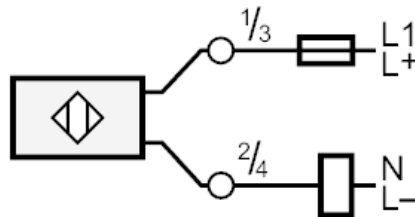
## Diffuse reflection sensor

OSN-FBOA

### Electrical connection

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

### Connection



Note : miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting