

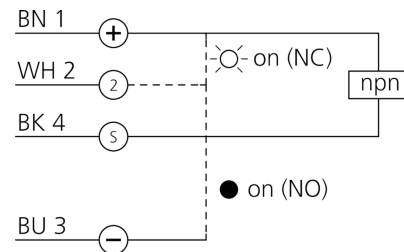
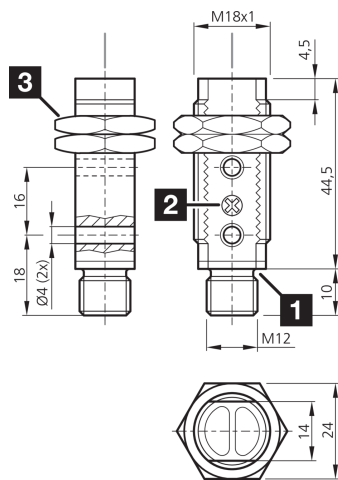


# 207969

## OR 18-1 FM 5700 N3-B4

### Retroreflective sensor

- Universal mounting options
- Low installation depth
- Sensitivity is adjustable
- LED switching status display
- Metal casing



- 1) Potentiometer  
2) LED

3) Width over flats 24 mm

BK: black

BN: brown

BU: blue

WH: white

#### Function



#### Technical data (typ.)

+20°C, 24 V DC

#### Electrical features

|                        |                |
|------------------------|----------------|
| Service voltage        | 10 ... 30 V DC |
| No-load current (max.) | 30 mA          |

#### Mechanical features

|                  |               |
|------------------|---------------|
| Thread           | M18 x 1       |
| Housing length   | 54.5 mm       |
| Housing material | Metal         |
| Material         | PMMA (Window) |

#### Certifications, approvals

|                  |                                          |
|------------------|------------------------------------------|
| Protection class | III, operation on protective low voltage |
|------------------|------------------------------------------|

#### General features

|                     |                        |
|---------------------|------------------------|
| Operating principle | Retroreflective sensor |
| Evaluation          | digital                |
| Design              | Thread                 |

#### Functional scope

|                   |                       |
|-------------------|-----------------------|
| Scope of delivery | Sensor, Reflector R55 |
|-------------------|-----------------------|



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**Retroreflective sensor**

| Technical data (typ.)                                     |                                                                                                                       | +20°C, 24 V DC                                                                |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Output, input, interface</b>                           |                                                                                                                       |                                                                               |
| Switching output                                          | npn, 100 mA, NO/NC                                                                                                    |                                                                               |
| Voltage drop (max.)                                       | 2 V                                                                                                                   |                                                                               |
| <b>Optical data</b>                                       |                                                                                                                       |                                                                               |
| Light source                                              | LED                                                                                                                   |                                                                               |
| Color                                                     | Red                                                                                                                   |                                                                               |
| Wavelength                                                | 660 nm                                                                                                                |                                                                               |
| Modulation                                                | Clocked                                                                                                               |                                                                               |
| Ambient light immunity                                    | 3 kLx Clocked light, 10 kLx Sunlight                                                                                  |                                                                               |
| <b>Detection range, measuring range, tolerance limits</b> |                                                                                                                       |                                                                               |
| Range                                                     | 5000 mm                                                                                                               |                                                                               |
| Range during operation with                               | <div><div></div> 2000 mm (R55)</div> <div><div></div> 4500 mm (R 84)</div> <div><div></div> 5000 mm (R 100x100)</div> |                                                                               |
| Referring reflector                                       | 100 x 100 mm, R 100 x 100                                                                                             |                                                                               |
| <b>Display, operation</b>                                 |                                                                                                                       |                                                                               |
| Sensitivity adjustment                                    | Potentiometer                                                                                                         |                                                                               |
| <b>Time behavior</b>                                      |                                                                                                                       |                                                                               |
| Switching frequency                                       | 1000 Hz                                                                                                               |                                                                               |
| Response time                                             | 0.50 ms                                                                                                               |                                                                               |
| Release time                                              | 0.50 ms                                                                                                               |                                                                               |
| <b>Ambient conditions</b>                                 |                                                                                                                       |                                                                               |
| Ambient temperature during operation                      | -25 ... +55 °C                                                                                                        |                                                                               |
| Protection type                                           | IP 67                                                                                                                 |                                                                               |
| <b>Electrical connection</b>                              |                                                                                                                       |                                                                               |
| Connection                                                | Connector, M12, 4-pin                                                                                                 |                                                                               |
| More information / accessories                            |                                                                                                                       | <a href="https://www.di-soric.com/207969">https://www.di-soric.com/207969</a> |