

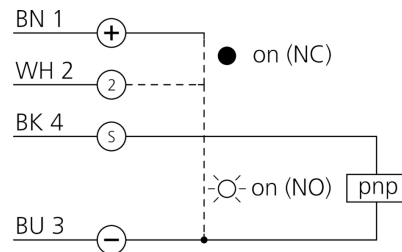
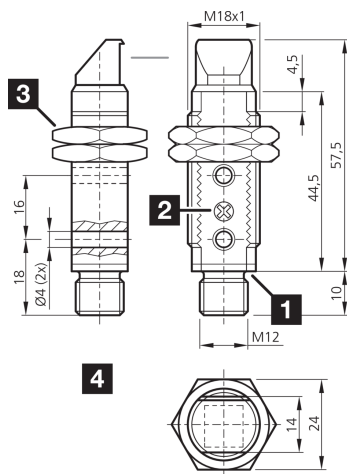


# 207946

## OT 18 FKR 320 P3-B4

### Retroreflective diffuse sensor

- Angled optics
- Universal mounting options
- Low installation depth
- Sensitivity is adjustable
- LED switching status display
- Plastic housing



- 1) Potentiometer  
2) LED

- 3) Width over flats 24 mm  
4) Lateral light emission

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   | 67.5 mm       |
| Housing material | Plastic (ABS) |
| Material         | PMMA (Window) |

#### Certifications, approvals

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

#### General features

|                     |                                |
|---------------------|--------------------------------|
| Operating principle | Retroreflective diffuse sensor |
| Evaluation          | digital                        |
| Design              | Thread, Angled optics          |

#### Output, input, interface

|                  |                    |
|------------------|--------------------|
| Switching output | pnp, 100 mA, NO/NC |
|------------------|--------------------|



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**Retroreflective diffuse sensor**

| Technical data (typ.)                                     |                                      | +20°C, 24 V DC                                                                |
|-----------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------|
| <b>Optical data</b>                                       |                                      |                                                                               |
| Light source                                              | LED                                  |                                                                               |
| Color                                                     | Infrared                             |                                                                               |
| Wavelength                                                | 880 nm                               |                                                                               |
| Modulation                                                | Clocked                              |                                                                               |
| Ambient light immunity                                    | 3 kLx Clocked light, 10 kLx Sunlight |                                                                               |
| <b>Detection range, measuring range, tolerance limits</b> |                                      |                                                                               |
| Range                                                     | 320 mm                               |                                                                               |
| Standardized measuring plate                              | 200 x 200 mm                         |                                                                               |
| <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/207946">https://www.di-soric.com/207946</a> |