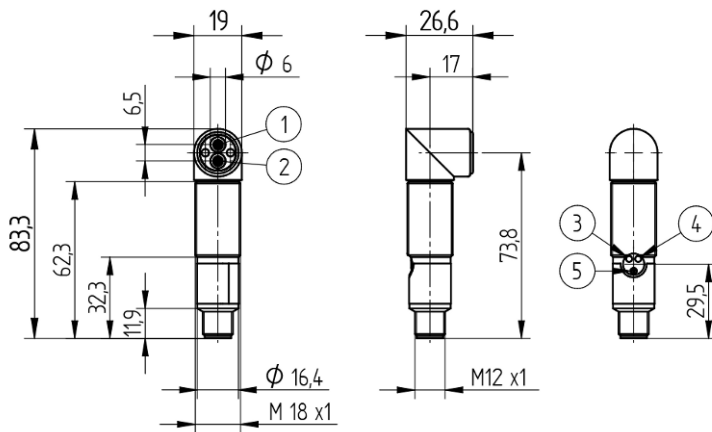


# Technical Data

## TW55PA3

### Reflex Sensor

Energetic



| Symbol | Key                         |
|--------|-----------------------------|
| 1      | Emitter diode               |
| 2      | Receiver diode              |
| 3      | Contamination warning       |
| 4      | Operating Status Indicator  |
| 5      | Switching distance adjuster |

EN



## Technical data

| Optical Data              |               |
|---------------------------|---------------|
| Range                     | 500 mm        |
| Switching Hysteresis      | < 15 %        |
| Light Source              | Infrared, LED |
| Wavelength                | 880 nm        |
| Service Life (T = +25 °C) | 100000 h      |
| Max. Ambient Light        | 10000 Lux     |
| Opening Angle             | 12 °          |

| Electrical Data                             |              |
|---------------------------------------------|--------------|
| Supply Voltage                              | 10...30 V DC |
| Current Consumption (U <sub>b</sub> = 24 V) | < 40 mA      |
| Switching Frequency                         | 500 Hz       |
| Response Time                               | 1 ms         |
| Temperature Drift                           | < 10 %       |
| Temperature Range                           | -25...60 °C  |
| Switching Output Voltage Drop               | < 2.5 V      |
| PNP Switching Output/Switching Current      | 200 mA       |
| Residual Current Switching Output           | < 50 µA      |
| Short Circuit Protection                    | yes          |
| Reverse Polarity Protection                 | yes          |
| Overload Protection                         | yes          |
| Protection Class                            | III          |

| Mechanical Data      |                                                   |
|----------------------|---------------------------------------------------|
| Setting Method       | Potentiometer                                     |
| Housing Material     | Stainless steel, V2A (1.4305/303)<br>Plastic, PBT |
| Full Encapsulation   | yes                                               |
| Degree of Protection | IP67                                              |
| Connection Type      | Plug variant                                      |
| Connection           | M12 × 1; 4-pin                                    |

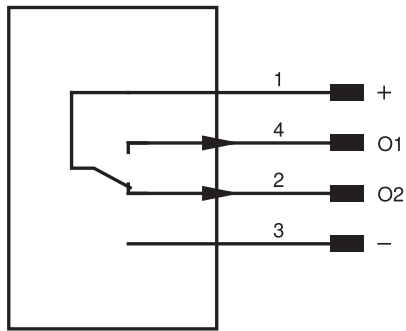
| General Data      |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Scope of delivery | 1 × initial start-up instructions<br>1 × MUTTER-M18-E012 hex nut<br>1 × sensor |

| Adjustable parameters |                   |
|-----------------------|-------------------|
| Circuit               | NC<br>NC+NO<br>NO |

All other parameters can be found in the product documentation.

| BMECat data   |                                                   |
|---------------|---------------------------------------------------|
| eCl@ss 5.1.4  | 27-27-09-03 Light scanner, energetic              |
| eCl@ss 6.x    | 27-27-09-03 Light scanner, energetic              |
| eCl@ss 7.0    | 27-27-09-03 Light scanner, energetic              |
| eCl@ss 7.1    | 27-27-09-03 Light scanner, energetic              |
| eCl@ss 8.x    | 27-27-09-03 Light scanner, energetic              |
| eCl@ss 10.0.1 | 27-27-09-03 Détecteur photoélectrique énergétique |

## Technical illustrations



| Pin | Pin function       | Polarity | Circuit    |
|-----|--------------------|----------|------------|
| 1   | Supply Voltage +   |          |            |
| 2   | Switching Output 2 | PNP      | Antivalent |
| 3   | Supply voltage 0 V |          |            |
| 4   | Switching Output 1 | PNP      | NO         |

