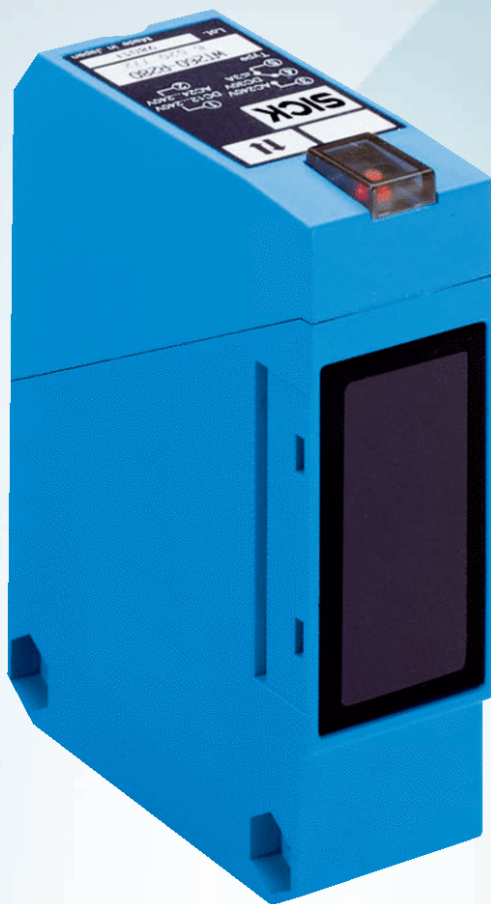




# WT260-R280

W260

PRODUCT PORTFOLIO

**SICK**  
Sensor Intelligence.

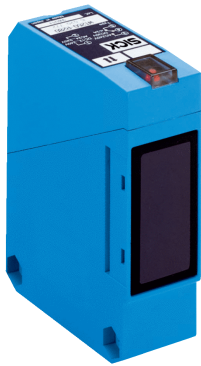


Illustration may differ



## Ordering information

| Type       | Part no. |
|------------|----------|
| WT260-R280 | 6020772  |

Other models and accessories → [www.sick.de/W260](http://www.sick.de/W260)

## Detailed technical data

### Features

|                                        |                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------|
| <b>Sensor/detection principle</b>      | Photoelectric proximity sensor, energetic                                             |
| <b>Dimensions (W x H x D)</b>          | 25 mm x 78 mm x 63 mm                                                                 |
| <b>Housing design (light emission)</b> | Rectangular                                                                           |
| <b>Sensing range max.</b>              | 10 mm ... 3,500 mm <sup>1)</sup>                                                      |
| <b>Sensing range</b>                   | 20 mm ... 3,000 mm                                                                    |
| <b>Type of light</b>                   | Infrared light                                                                        |
| <b>Light source</b>                    | LED <sup>2)</sup>                                                                     |
| <b>Light spot size (distance)</b>      | Ø 95 mm (3,000 mm)                                                                    |
| <b>Angle of dispersion</b>             | Approx. 1.7°                                                                          |
| <b>Adjustment</b>                      | Potentiometer, 270°                                                                   |
| <b>Time type</b>                       | On delay<br>Off delay                                                                 |
| <b>Delay time</b>                      | Adjustable via time delay selector switch, 0.1 s, 10 s<br>Adjustable via time control |

<sup>1)</sup> Object with 90 % reflectance (referred to standard white, DIN 5033)

<sup>2)</sup> Average service life: 100,000 h at T<sub>U</sub> = +25 °C.

### Mechanics/electronics

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| <b>Supply voltage</b>    | 12 V DC ... 240 V DC <sup>1)</sup><br>24 V AC ... 240 V AC <sup>1)</sup> |
| <b>Power consumption</b> | ≤ 5 VA                                                                   |
| <b>Output type</b>       | Relay, electrically isolated <sup>2)</sup>                               |

<sup>1)</sup> ±10 %.

<sup>2)</sup> Provide suitable spark suppression for inductive or capacitive loads.

<sup>3)</sup> With light/dark ratio 1:1.

<sup>4)</sup> A = V<sub>S</sub> connections reverse-polarity protected.

<sup>5)</sup> C = interference suppression.

<sup>6)</sup> Rated voltage: 250 V AC/DC.

|                                              |                                                        |
|----------------------------------------------|--------------------------------------------------------|
| <b>Output function</b>                       | Change-over contacts                                   |
| <b>Switching mode</b>                        | Light switching <sup>2)</sup>                          |
| <b>Switching current (switching voltage)</b> | 3 A (240 V AC)<br>3 A (30 V DC)                        |
| <b>Response time</b>                         | ≤ 20 ms                                                |
| <b>Switching frequency</b>                   | 25 Hz <sup>3)</sup>                                    |
| <b>Connection type</b>                       | Cable gland                                            |
| <b>Circuit protection</b>                    | A <sup>4)</sup><br>C <sup>5)</sup>                     |
| <b>Protection class</b>                      | II <sup>6)</sup>                                       |
| <b>Weight</b>                                | 120 g                                                  |
| <b>Interference emission</b>                 | Level EN 61000-6-3<br>Residential and commercial areas |
| <b>Housing material</b>                      | ABSplastic                                             |
| <b>Optics material</b>                       | PC                                                     |
| <b>Enclosure rating</b>                      | IP 67                                                  |
| <b>Items supplied</b>                        | Mounting bracket BEF-W260                              |
| <b>Usage category</b>                        | AC-15, DC-13, according to EN 60947-1                  |
| <b>Ambient operating temperature</b>         | -25 °C ... +55 °C                                      |
| <b>Ambient storage temperature</b>           | -40 °C ... +70 °C                                      |
| <b>UL File No.</b>                           | EN50081-1, 242356                                      |

1) ±10 %.

2) Provide suitable spark suppression for inductive or capacitive loads.

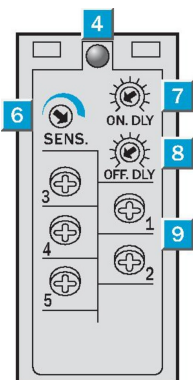
3) With light/dark ratio 1:1.

4) A = V<sub>S</sub> connections reverse-polarity protected.

5) C = interference suppression.

6) Rated voltage: 250 V AC/DC.

## Adjustments possible



④ LED signal strength indicator, red

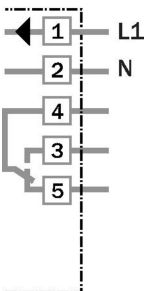
⑥ Sensitivity control

⑦ Time control ON delay  $t_{ON}$

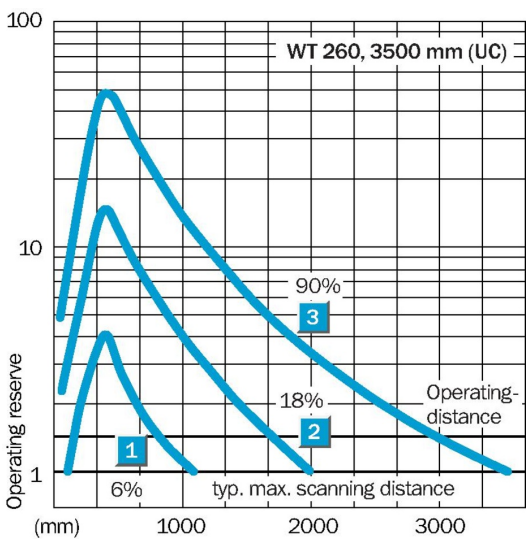
⑧ Time control OFF delay  $t_{OFF}$

⑨ Terminals

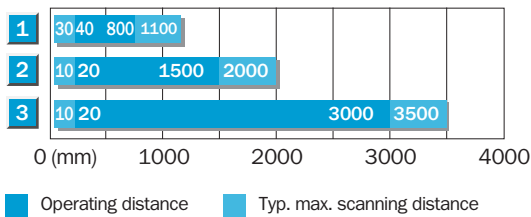
Connection diagram



Characteristic curve

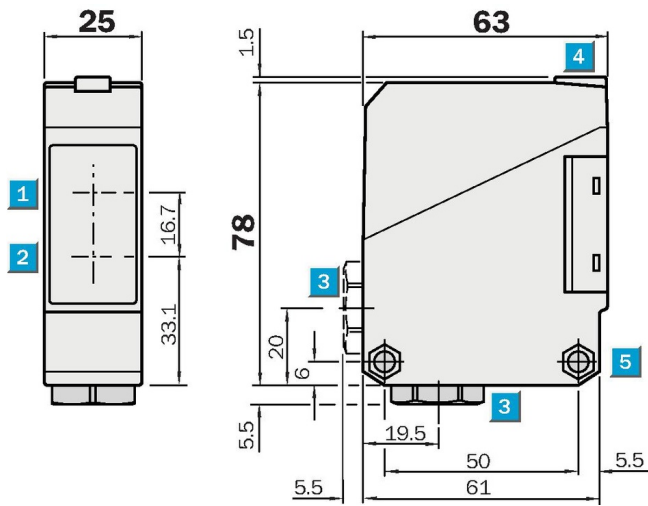


Sensing range diagram



|   |                                         |
|---|-----------------------------------------|
| 1 | Scanning range on black, 6 % remission  |
| 2 | Scanning range on grey, 18 % remission  |
| 3 | Scanning range on white, 90 % remission |

### Dimensional drawing (Dimensions in mm (inch))



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