



## Photoelectric sensors W260, Photoelectric proximity sensor, energetic

WT260-S270



**Model Name** > **WT260-S270**  
**Part No.** > **6020769**



*Illustration may differ*

#### At a glance

- Long sensing ranges
- Background suppression or energetic sensory types
- Mounting bracket included in delivery
- Selectable operation mode (light/dark)
- Optional time stages
- M12 connector or terminal chamber
- DC and universal AC/DC voltage versions

#### Your benefits

- Reliable object detection
- Reliable in difficult ambient light conditions
- Configuration controls are protected by a cover, ensuring less damage and a longer service life
- Simplified integration due to mounting compatibility since variants for DC or DC/AC voltage supply are available in the same design
- Teach button and adjustable time delay versions simplify integration of individual systems



#### Features

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Sensor/detection principle:       | Photoelectric proximity sensor, energetic |
| Dimensions (W x H x D):           | 25 mm x 78 mm x 63 mm                     |
| Housing design (light emission):  | Rectangular                               |
| Sensing range max.:               | 5 mm ... 1,700 mm <sup>1)</sup>           |
| Sensing range:                    | 5 mm ... 1,300 mm                         |
| Type of light:                    | Visible red light                         |
| Light source:                     | LED <sup>2)</sup>                         |
| Light spot (distance):            | 60 mm (1,300 mm)                          |
| Adjustment of operating distance: | Potentiometer, 270°                       |

<sup>1)</sup> Object with 90 % reflectance (referred to standard white DIN 5033) <sup>2)</sup> Average service life 100,000 h at Ta = +25 °C

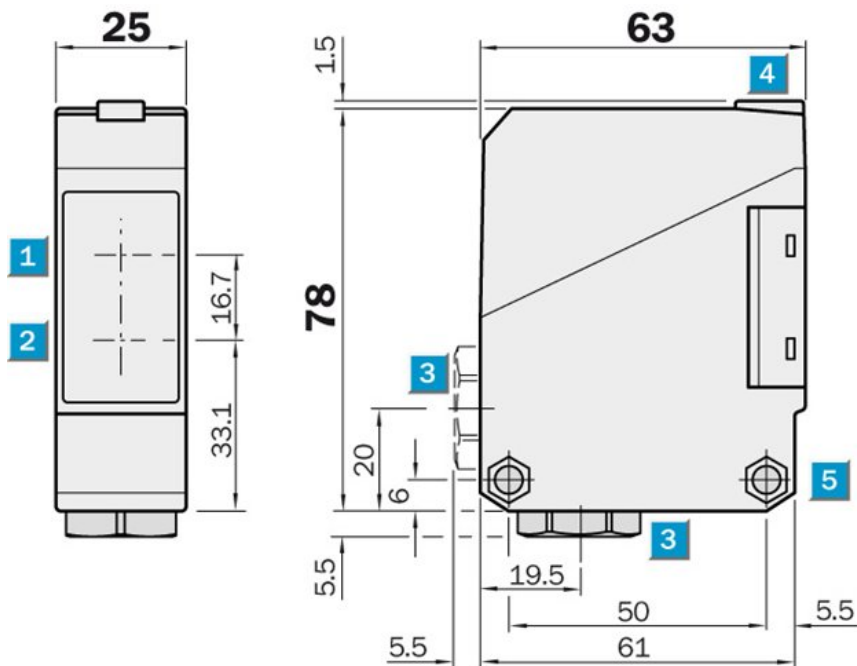
#### Mechanics/electronics

|                                        |                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------|
| Supply voltage::                       | 12 V DC ... 240 V DC, 24 V AC ... 240 V AC <sup>1) 2)</sup>                       |
| Power consumption:                     | ≤ 5 VA                                                                            |
| Switching output:                      | Relay, Light-switching, change-over contacts, electrically isolated <sup>3)</sup> |
| Switching current (switching voltage): | 3 A (240 V AC), 3 A (30 V DC)                                                     |

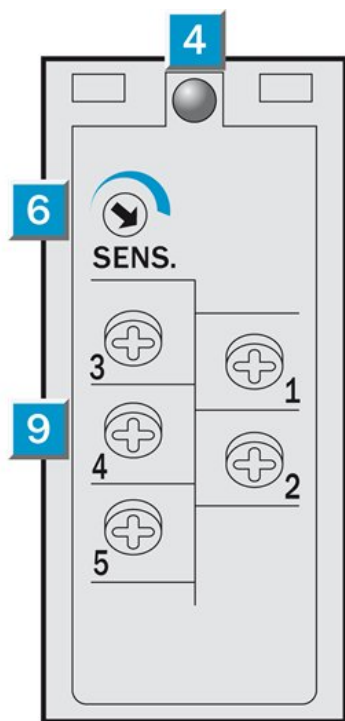
|                                |                                       |
|--------------------------------|---------------------------------------|
| Response time:                 | ≤ 20 ms                               |
| Switching frequency:           | 25 Hz <sup>4)</sup>                   |
| Angle of dispersion:           | 1.8 °                                 |
| Connection type:               | Cable gland                           |
| Circuit protection::           | A, C <sup>5) 6)</sup>                 |
| Protection class:              | II <sup>7)</sup>                      |
| Weight:                        | 120 g                                 |
| Housing material:              | ABS                                   |
| Optics material:               | PC                                    |
| Enclosure rating:              | IP 67                                 |
| Items supplied:                | Mounting bracket BEF-W260             |
| Usage category:                | AC-15, DC-13, According to EN 60947-1 |
| Ambient temperature operation: | -25 °C ... 55 °C                      |
| Ambient storage temperature:   | -40 °C ... 70 °C                      |
| UL File-No.:                   | EN50081-1, 242356                     |

1) 2) ±10 % 3) Provide suitable spark suppression for inductive or capacitive loads 4) With light/dark ratio 1:1 5) A = V<sub>S</sub> connections reverse-polarity protected 6) C = interference suppression 7) Rated voltage 250 V AC/DC

## Dimensional drawing

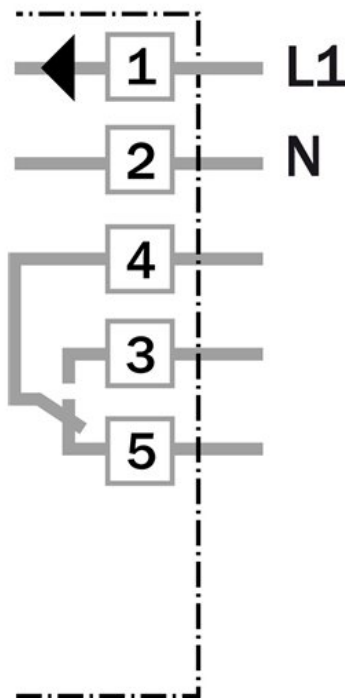


Adjustments possible

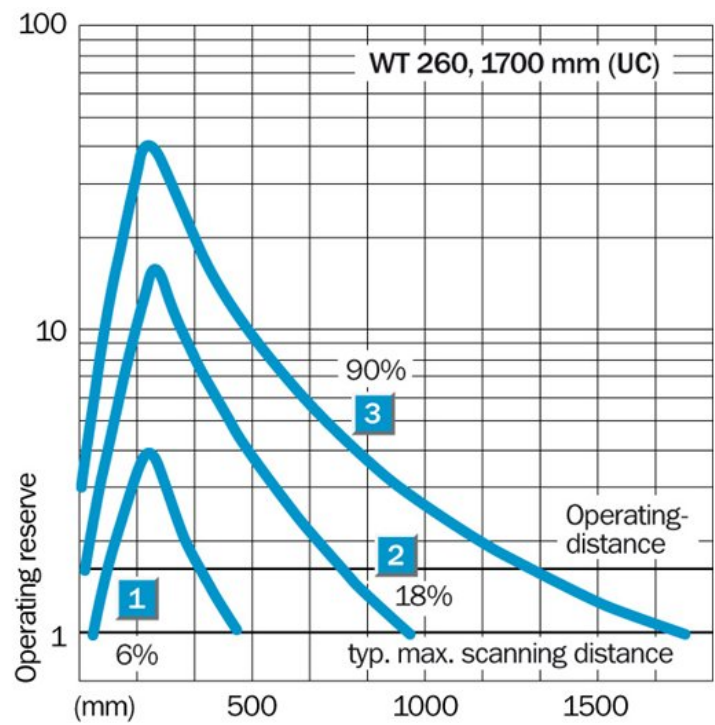


- |4| LED signal strength indicator, red
- |6| Sensitivity adjustment
- |9| Terminals

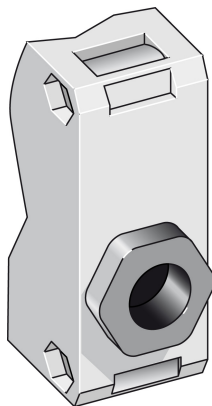
Connection diagram



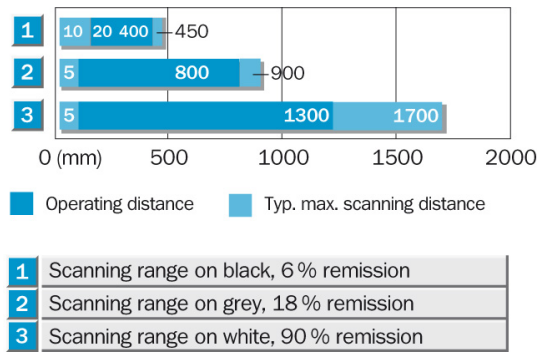
Characteristic curve



Connection type



Sensing range diagram



#### **Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

#### **Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

#### **Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

#### **Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

#### **Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

#### **China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

#### **Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

#### **Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

#### **España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

#### **France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

#### **Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

#### **India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

#### **Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

#### **Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

#### **Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

#### **Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

#### **Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

#### **Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

#### **Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

#### **Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

#### **România**

Phone +40 356 171 120  
E-Mail office@sick.ro

#### **Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

#### **Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

#### **Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

#### **Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

#### **South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

#### **South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

#### **Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

#### **Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

#### **Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

#### **Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

#### **United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

#### **USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)