



Photoelectric sensors
W260, Photoelectric proximity sensor, energetic

WT260-R270



Model Name > WT260-R270
Part No. > 6020770



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 ¹⁾
Sensing range:	5 mm ... 1,300 mm
Type of light:	Visible red light
Light source:	LED ²⁾
Light spot (distance):	60 mm (1,300 mm)
Adjustment of operating distance:	Potentiometer, 270°
Time type:	Off delay, On delay
Delay time:	Adjustable via time control., Adjustable via time delay selector switch: 0.1 ... 10 s
Angle of dispersion:	1.8 °

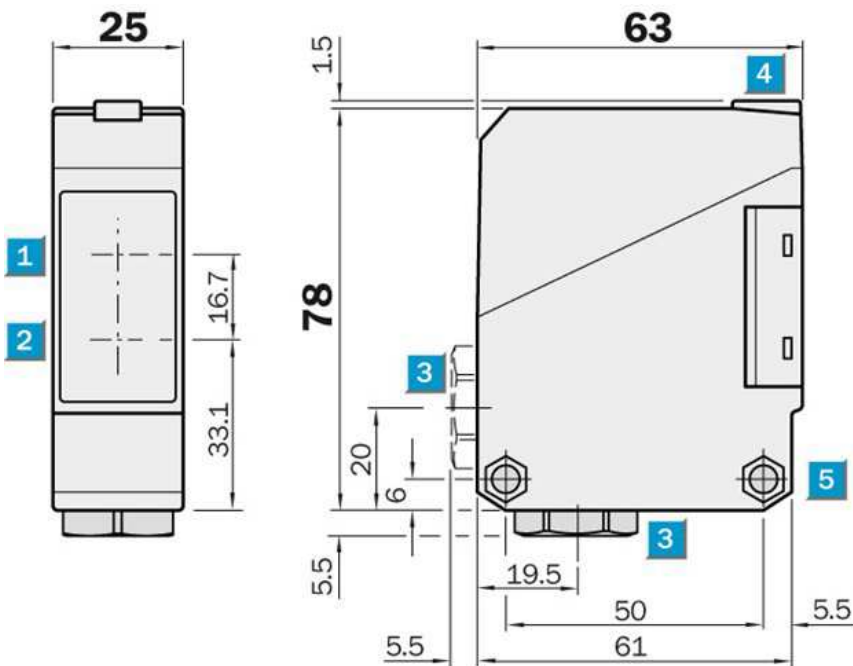
¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

Mechanics/electronics

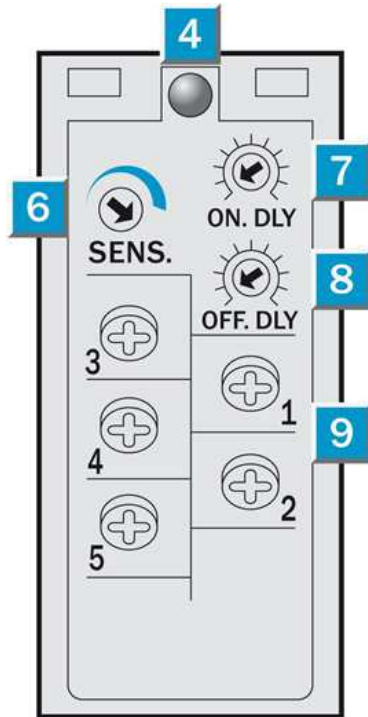
Supply voltage::	12 V DC ... 240 V DC, 24 V AC ... 240 V AC ^{1) 2)}
Power consumption:	≤ 5 VA
Output type:	Relay, Light-switching, change-over contacts, electrically isolated ³⁾
Switching current (switching voltage):	3 A (240 V AC), 3 A (30 V DC)
Response time:	≤ 20 ms
Switching frequency:	25 Hz ⁴⁾
Electrical connection:	Cable gland
Circuit protection::	A, C ^{5) 6)}
Protection class:	II ⁷⁾
Weight:	120 g
Interference emission:	Level EN 61000-6-3 Residential and commercial areas
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_S connections reverse-polarity protected 6) C = interference suppression 7) Rated voltage 250 V AC/DC

Dimensional drawing

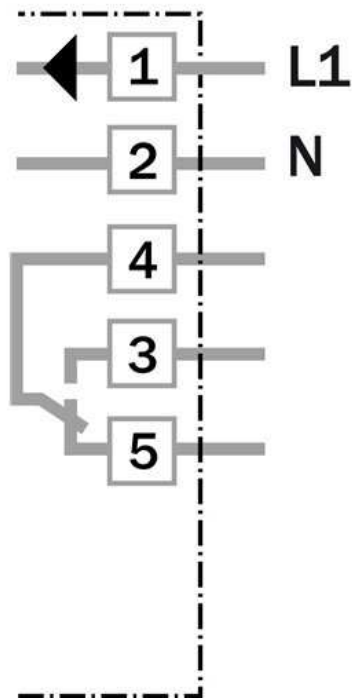


Adjustments possible

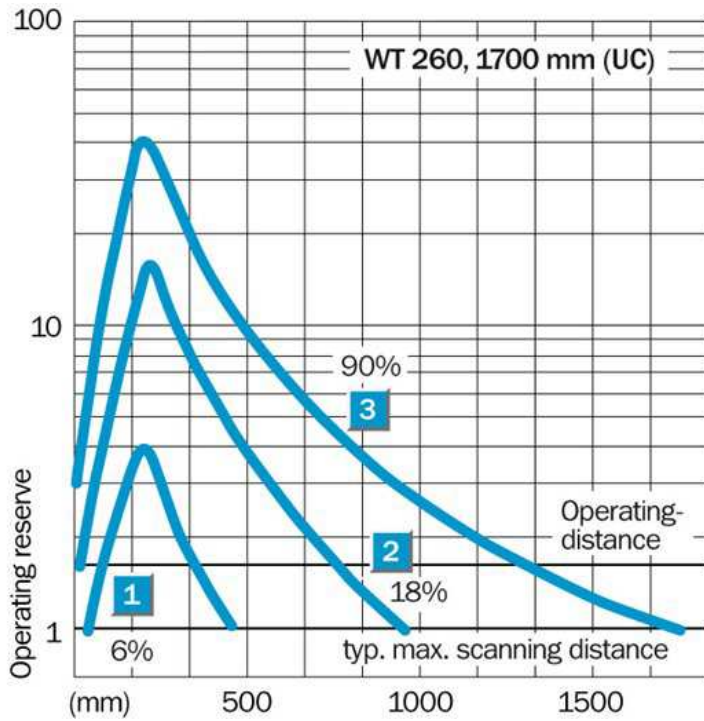


- |4| LED signal strength indicator, red
- |6| Sensitivity adjustment
- |7| Time control ON delay tON
- |8| Time control OFF delay tOFF
- |9| Terminals

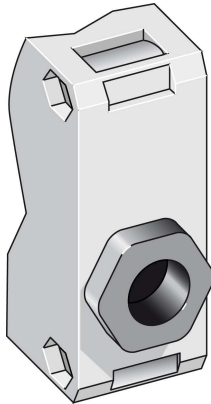
Connection diagram



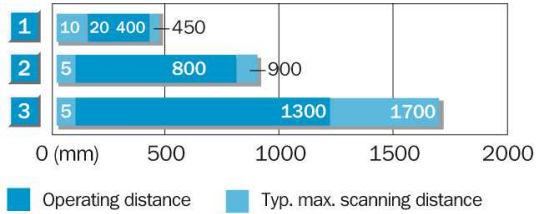
Characteristic curve



Connection type



Sensing range diagram



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

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