



Photoelectric sensors
W260, Photoelectric proximity sensor,
Background suppression

WT260-S260



Model Name > **WT260-S260**
Part No. > **6009473**

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



Illustration may differ



Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	25 mm x 77.8 mm x 63 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 mm ... 380 mm ¹⁾
Sensing range::	0 mm ... 380 mm, 75 mm ... 160 mm ^{2) 3)}
Type of light:	Infrared light
Light source:	LED ⁴⁾
Light spot (distance):	17 mm (300 mm)
Adjustment of operating distance:	Potentiometer, 270°
Angle of dispersion:	1.5 °

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Sensing distance control set to MAX ³⁾ Sensing distance control set to MIN ⁴⁾ Average

service life 100,000 h at Ta = +25 °C

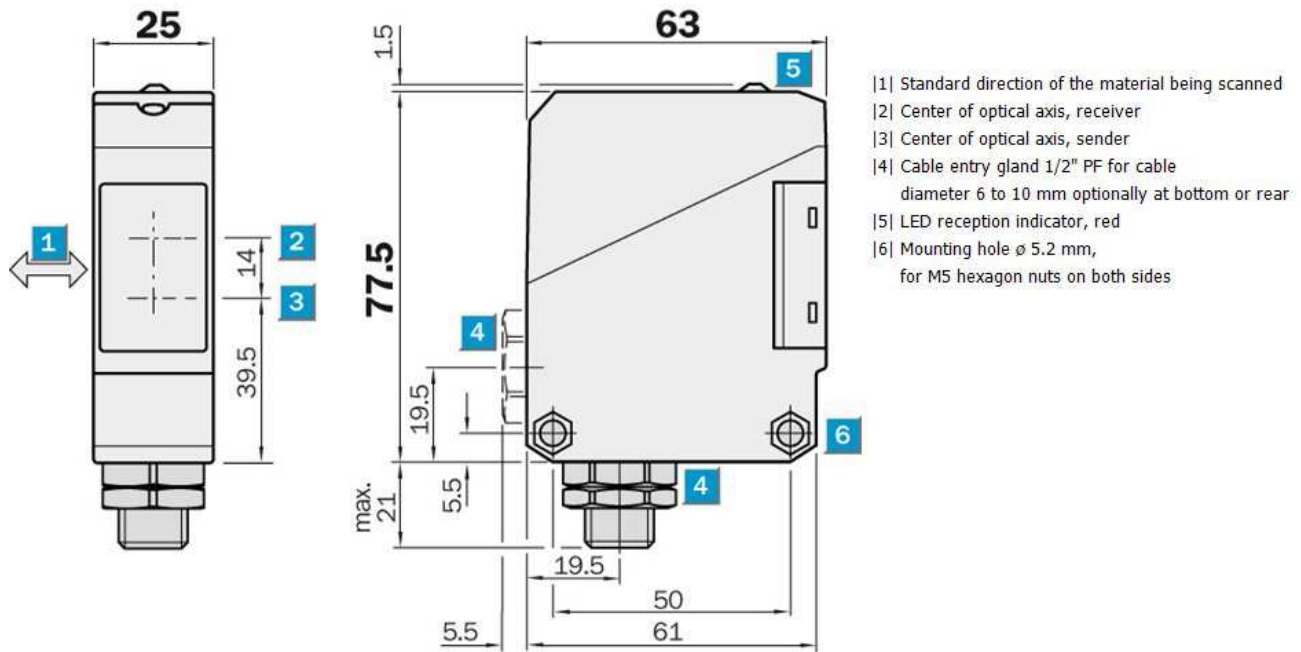
Mechanics/electronics

Supply voltage::	12 V DC ... 240 V DC, 24 V AC ... 240 V AC ^{1) 2)}
Power consumption:	≤ 5 VA

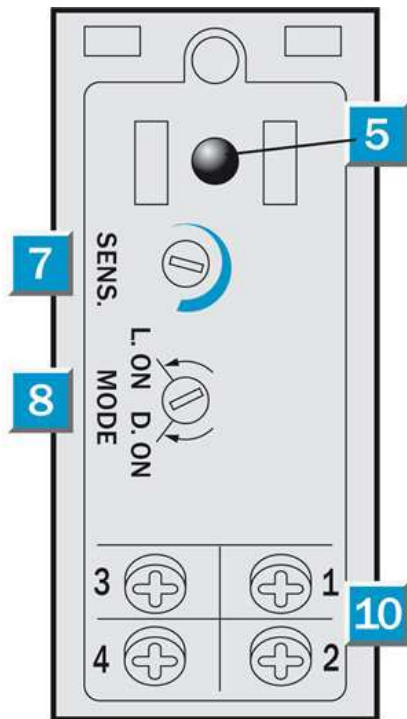
Output type:	Relay, Light/dark-switching, selectable via light/dark selector, NO, electrically isolated ³⁾
Switching current (switching voltage):	3 A (240 V AC), 3 A (30 V DC)
Response time:	≤ 20 ms
Switching frequency:	25 Hz ⁴⁾
Electrical connection:	Cable gland
Circuit protection::	A, C ⁵⁾⁶⁾
Protection class:	II ⁷⁾
Weight:	120 g
Housing material:	ABS
Optics material:	PC
Enclosure rating:	IP 66
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.:	UL No. NRNT2.E128350 & cUL No. NRNT8.E128350

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

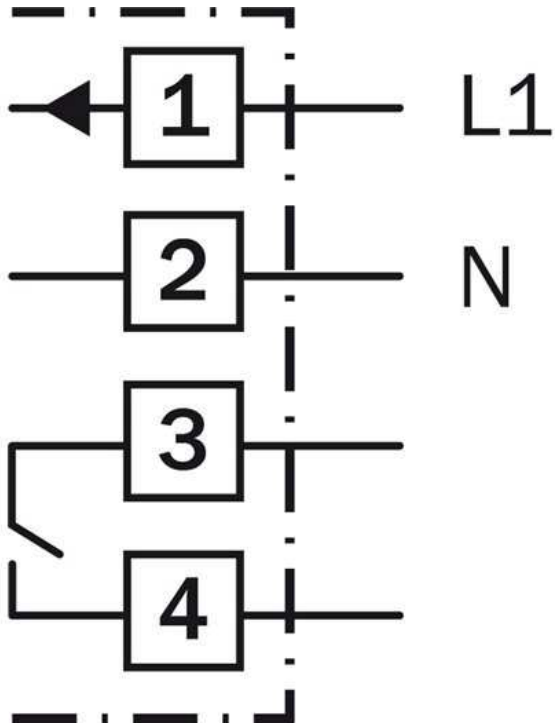


Adjustments possible

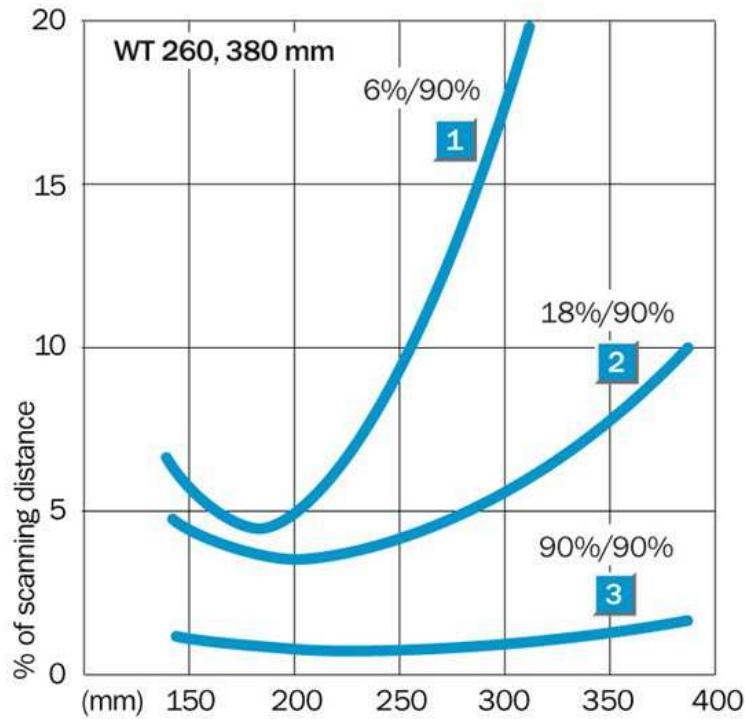


- |5| LED signal strength indicator, red
- |7| Sensing distance adjustment
- |8| Light/ dark rotary switch L= light switching, D= dark switching
- |10| Terminals

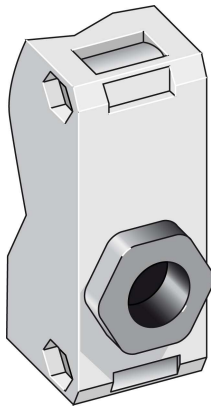
Connection diagram



Characteristic curve



Connection type



Sensing range diagram



■ Operating distance ■ Typ. max. scanning distance
 Dependent on setting of scanning distance

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

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