



Photoelectric sensors
W260, Photoelectric proximity sensor,
Background suppression

WT260T-R290



Model Name > WT260T-R290
Part No. > 6021924



Illustration may differ

At a glance

- Long sensing ranges
- Background suppression proximity sensor or energetic proximity sensor
- Mounting bracket included in delivery
- Selectable operation mode (light/dark)
- Optional adjustable time delays
- 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
- Easy-to-use teach button reduces setup time



Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	25 mm x 78 mm x 63 mm
Housing design (light emission):	Rectangular
Sensing range max.:	70 mm ... 2,100 mm ¹⁾
Sensing range:	100 mm ... 2,000 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Light spot (distance):	200 mm (2,000 mm)
Adjustment of operating distance:	Automatic, via teach-in button
Time type:	Time delay off, Switch on delay
Delay time:	Adjustable via time control:, Adjustable via time delay selector switch: 0.1 ... 10 s
Angle of dispersion:	6 °

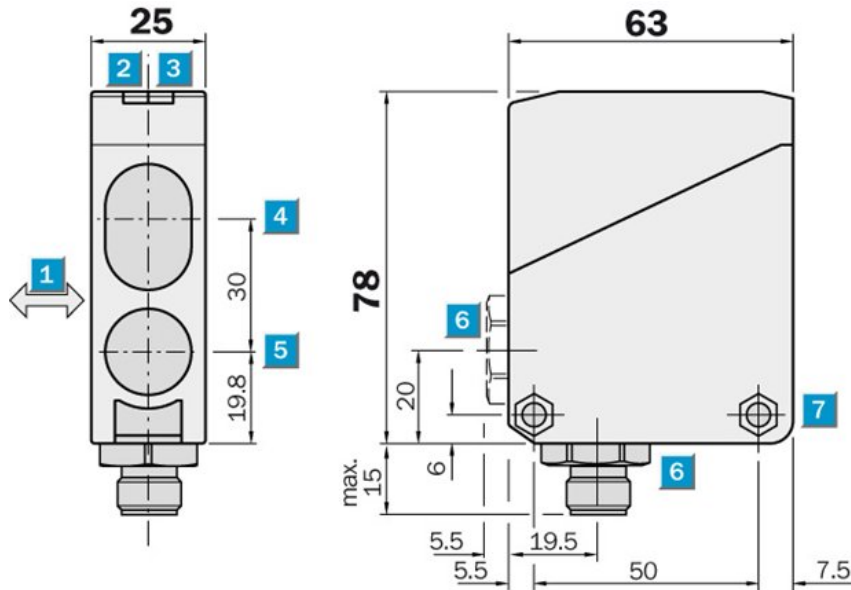
¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

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⁾
Connection type:	Cable gland
Circuit protection::	A, C ^{5) 6)}
Protection class:	II ⁷⁾
Weight:	120 g
Housing material:	ABS
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	Mounting bracket BEF-W260
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient operating temperature:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C
UL File-No.:	UL No. NRNT2.E128350 & cUL No. NRNT8.E128350

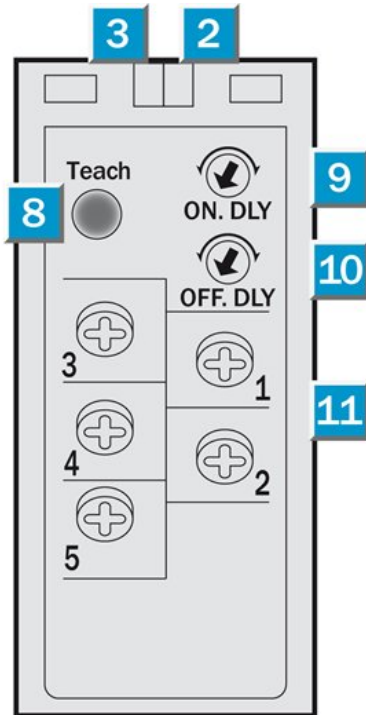
1) 2) ±10 % 3) Provide suitable spark suppression for inductive or capacitive loads 4) With light/dark ratio 1:1 5) A = V_S connections reverse-polarity protected 6) C = interference suppression 7) Rated voltage 250 V AC/DC

Dimensional drawing



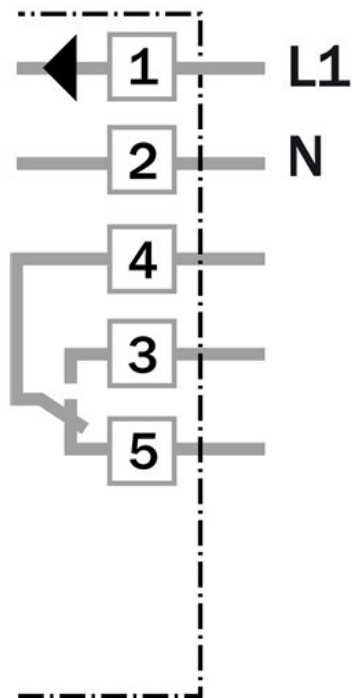
- [1] Standard direction of the material being scanned
- [2] LED indicator orange: switching output active
- [3] Status indicator LED, green: operating reserve
- [4] Center of optical axis, receiver
- [5] Center of optical axis, sender
- [6] Cable entry gland 1/2" PF thread for cable diameters from 6 to 10 mm optionally at bottom or rear; or connector M12, bottom (4-pin)
- [7] Mounting hole ø 5.2 mm, for M5 hexagon nuts on both sides

Adjustments possible

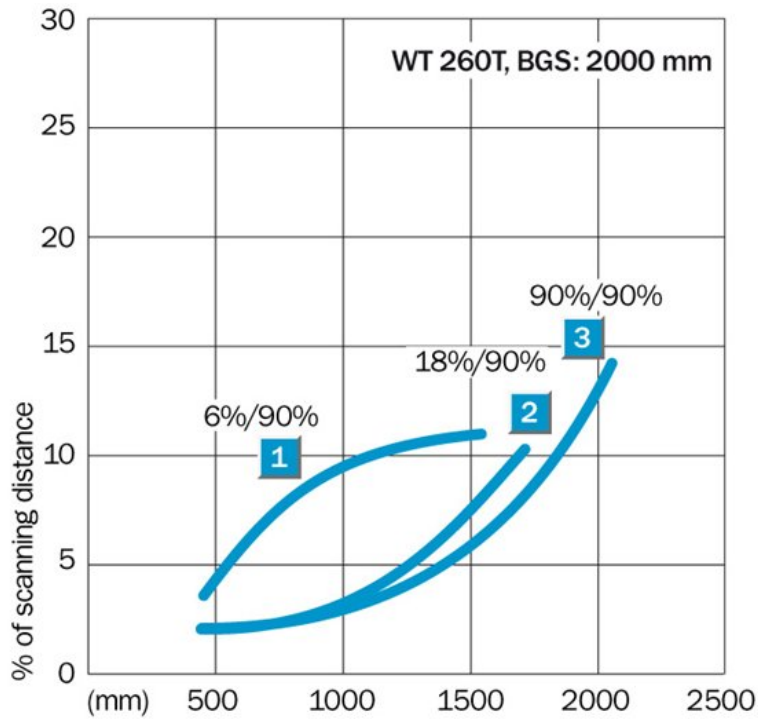


- |2| Orange LED indicator : switching output active
- |3| Status indicator LED, green: operating reserve
- |8| Teach-in button
- |9| Light/ dark rotary switch L=
light switching, D= dark switching
- |10| Terminals
- |11| Terminals

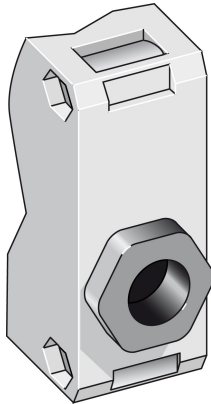
Connection diagram



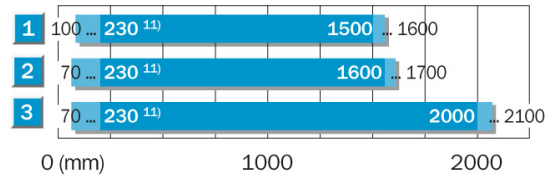
Characteristic curve



Connection type



Sensing range diagram



■ Operating distance ■ Typ. max. scanning distance

¹¹⁾ Dependent on setting of scanning distance

1	Scanning range on black ¹⁰⁾ , background white
2	Scanning range on gray ¹⁰⁾ , background white
3	Scanning range on white ¹⁰⁾ , background white

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