



Photoelectric sensors
W260, Photoelectric proximity sensor,
Background suppression

WT260T-P290



Model Name > WT260T-P290
Part No. > 6021919



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
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

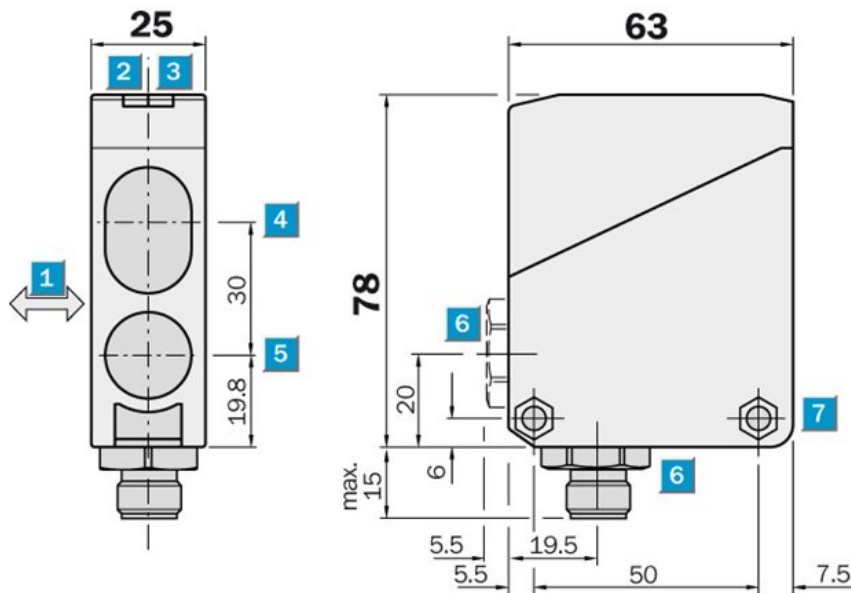
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	≤ 10 % ²⁾

Power consumption:	$\leq 55 \text{ mA}$ ³⁾
Output type:	PNP, Light/dark-switching, selectable via light/dark selector, open collector
Output current I _{max.} :	100 mA
Response time:	$\leq 5 \text{ ms}$ ⁴⁾
Switching frequency:	100 Hz ⁵⁾
Connection type:	Cable gland
Circuit protection:::	A, B, C, D ⁶⁾ 7) 8) 9)
Protection class:	II ¹⁰⁾
Weight:	120 g
Housing material:	ABS
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	Mounting bracket BEF-W260
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

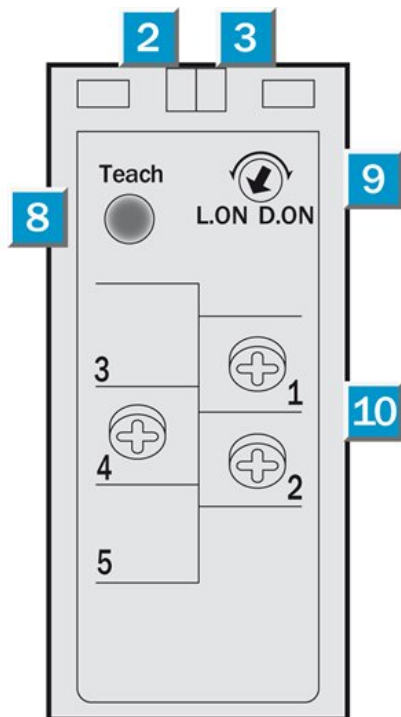
¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾
 With light/dark ratio 1:1 ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ B = inputs and output reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D =
 outputs overcurrent and short-circuit protected ¹⁰⁾ Reference voltage 50 V DC

Dimensional drawing



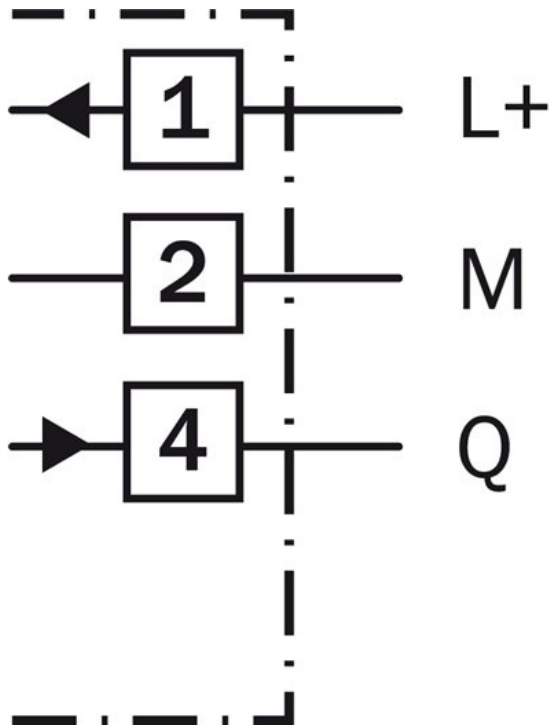
- [1] Standard direction of the material being scanned
- [2] LED indicator orange: switching output active
- [3] Status indicator LED, green: operating reserve
- [4] Center of optical axis, receiver
- [5] Center of optical axis, sender
- [6] Cable entry gland 1/2" PF thread for cable diameters from 6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

Adjustments possible

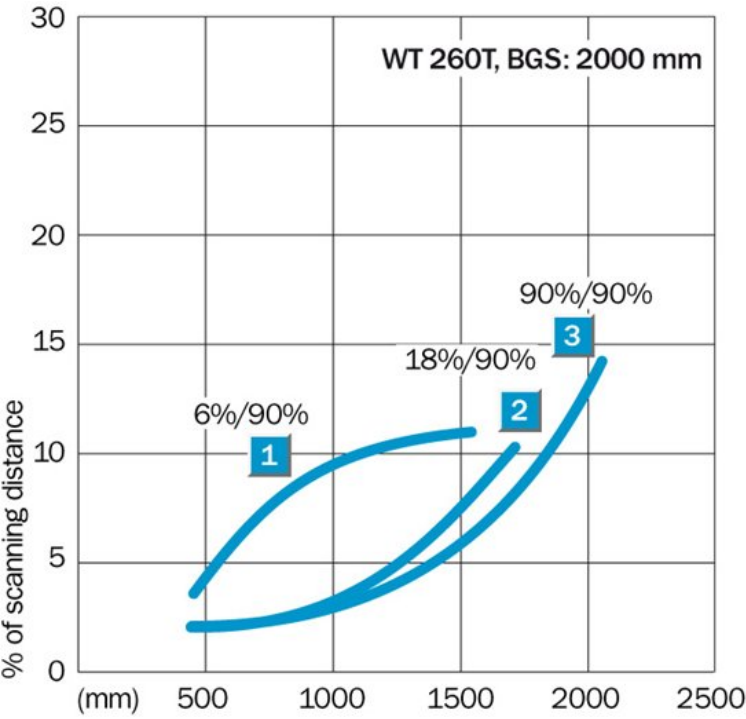


- |2| LED indicator orange: switching output active
- |3| Status indicator LED, green: operating reserve
- |8| Teach-in button
- |9| Time control ON delay tON
- |10| Time control OFF delay tOFF

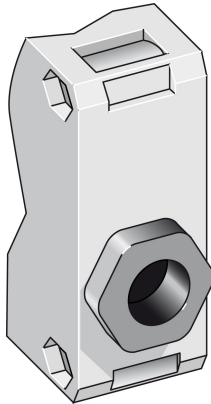
Connection diagram



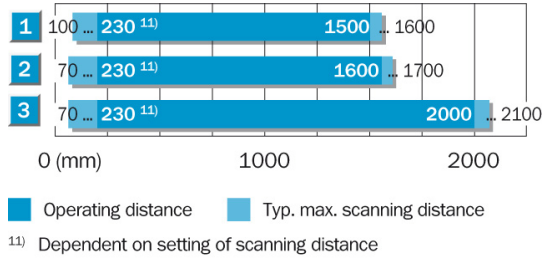
Characteristic curve



Connection type



Sensing range diagram



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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