



Photoelectric sensors
Background suppression, Photoelectric proximity
sensor, Product group W12-2

WT12-2N430



Model Name > [WT12-2N430](#)
Part No. > [1016125](#)



- Red light; consequently, fast alignment is possible
- Insensitive to external light sources, i.e., increased operating reliability
- M12 plug rotatable by 90°, or 2 m/5 m cable
- Adjustable background suppression

Note: This part is discontinued. Please see the replacement product under "Replacement Products" link. "



Product features

Sensing range min ... max::	20 mm ... 250 mm
Light source::	LED
Type of light:	Red light
Light spot diameter:	10 mm at 200 mm distance
Laser:	Red light
Sensing range max.:	20 mm ... 250 mm
Adjustment::	Potentiometer

Technical data

Design::	Rectangular
Dimensions (W x H x D):	15 mm x 49 mm x 41.5 mm
Supply voltage min ... max.:	DC 10 ... 30 V ¹⁾
Ripple:	≤ 5 Vpp
Power consumption:	≤ 40 mA
Output type:	NPN antivalent
Output current max.:	≤ 100 mA
Response time::	≤ 330 μs
Switching frequency:	1,500 Hz
Connection type:	Connector, M12, 4-pin
Circuit protection:	V ₊ connections reverse-polarity protected/Output Q and Q not short-circuit protected/Interference suppression
Enclosure rating::	IP 69K
Ambient operation temperature, min ... max.:	-40 °C ... +60 °C
Ambient storage temperature, min ... max.:	-40 °C ... +75 °C
Weight:	Ca. 120 g

Housing material:

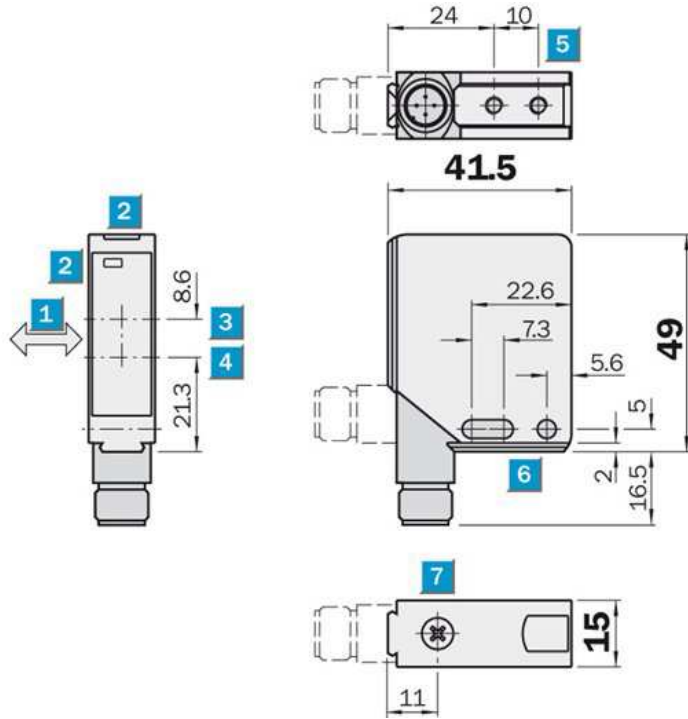
die-cast zinc

Series:

W12-2

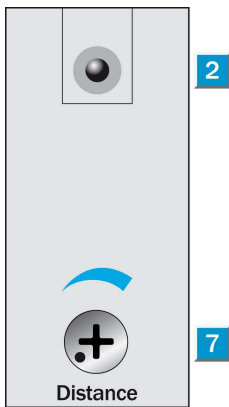
1) Limit values

Dimensional drawing

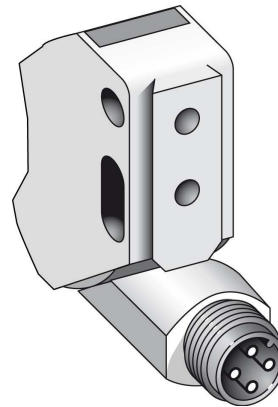


- |1| Standard direction of the material being scanned
- |2| LED signal strength indicator
- |3| Optical axis, receiver
- |4| Optical axis, sender
- |6| Mounting hole, \varnothing 4.2 mm
- |7| Sensing distance adjustment

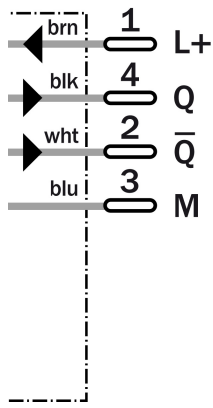
Adjustment possible



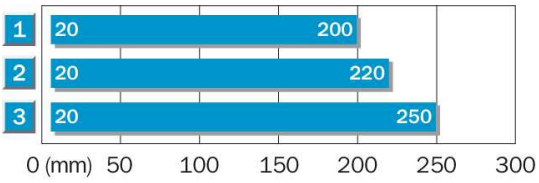
Connection type



Connection diagram

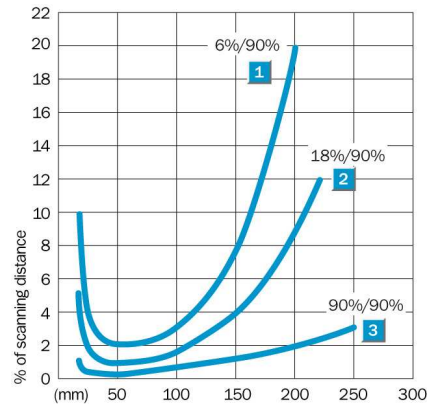


Sensing range diagram



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

Characteristic curve



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