



Photoelectric sensors
Energetic, Photoelectric proximity sensor,
Product group W140-2

WTE140-2N330

Model Name > [WTE140-2N330](#)
Part No. > [6024802](#)



- Energetic photoelectric switch for standard applications
- Adjustable switching point
- Red light as alignment aid
- LED indicator: operating reserve



Product features

Sensing range min ... max:	0 mm ... 1,000 mm, 0 mm ... 800 mm
Light source:	LED
Type of light:	Red light
Light spot diameter:	Approx. 50 mm at 300 mm distance
Laser:	Red light
Sensing range max.:	0 mm ... 1,000 mm, 0 mm ... 800 mm
Adjustment:	Potentiometer
Wave length:	680 nm

Technical data

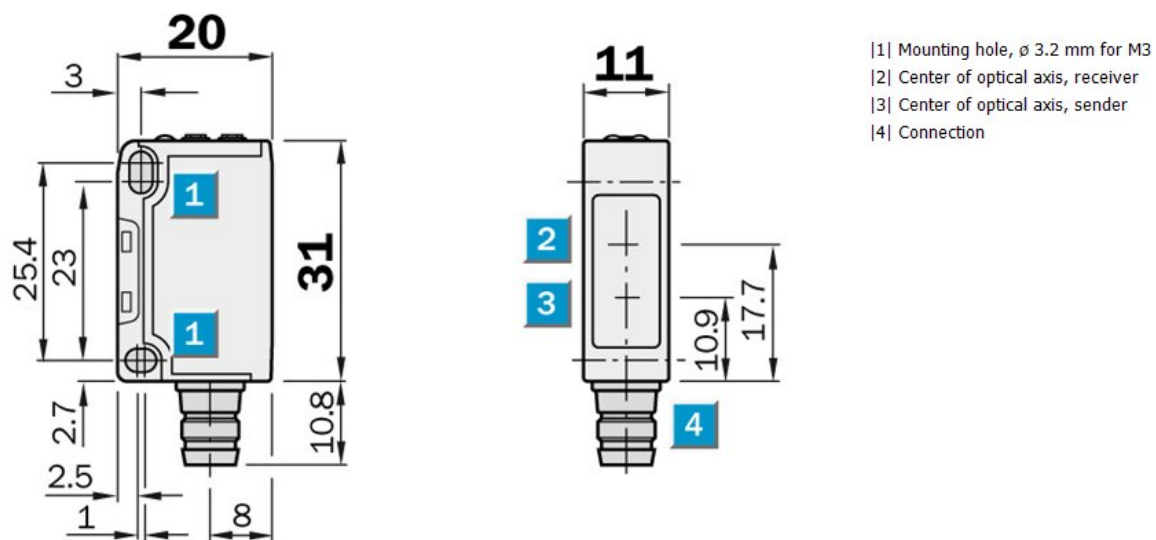
Design:	Rectangular
Dimensions (W x H x D):	11 mm x 31 mm x 20 mm
Supply voltage min ... max:	DC 10 ... 30 V ¹⁾
Ripple:	± 10 %
Power consumption:	≤ 30 mA
Switching output:	NPN: open collector: Q
Switching mode:	Light/dark switching via rotary switch
Signal voltage NPN HIGH/LOW:	Approx. $V_S / < 1.8 \text{ V}$
Output current max.:	100 mA
Response time:	≤ 0.5 ms
Switching frequency:	1,000 Hz
Connection type:	Connector, M8, 3-pin
Circuit protection:	V_S connections reverse-polarity protected/In-/outputs short-circuit protected/Interference suppression/Outputs overcurrent and short-circuit protected
Enclosure rating:	IP 67
Ambient operation temperature, min ... max:	-25 °C ... +55 °C
Ambient storage temperature, min ... max:	-40 °C ... +70 °C
Weight:	Ca. 9 g
Housing material:	PBT
Angle of dispersion:	ca. 9.6 °

Series: W140-2

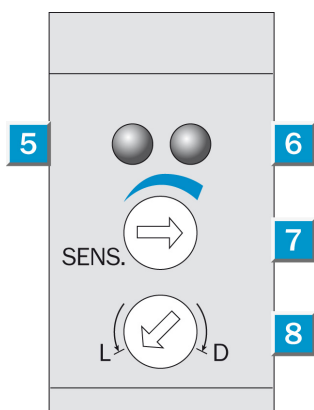
Optics material: PC

1) Limit values, reverse-polarity protected operation in short-circuit protected network max. 8 A

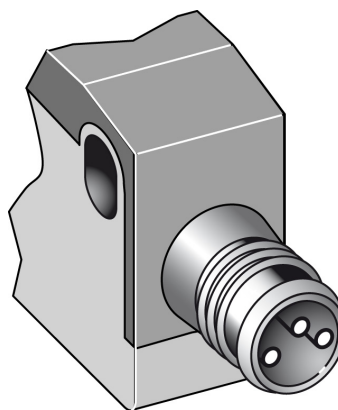
Dimensional drawing



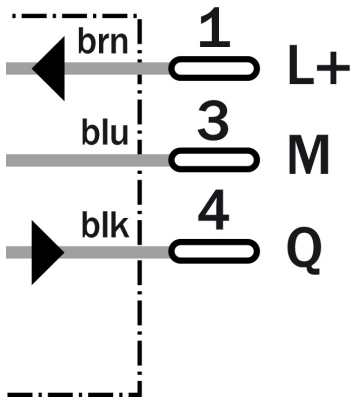
Adjustment possible



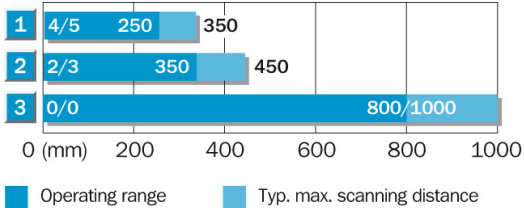
Connection type



Connection diagram



Sensing range diagram



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

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