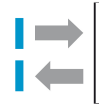




Photoelectric sensors  
Energetic, Photoelectric proximity sensor,  
Product group W140-2

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

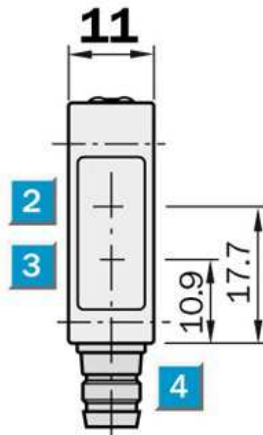
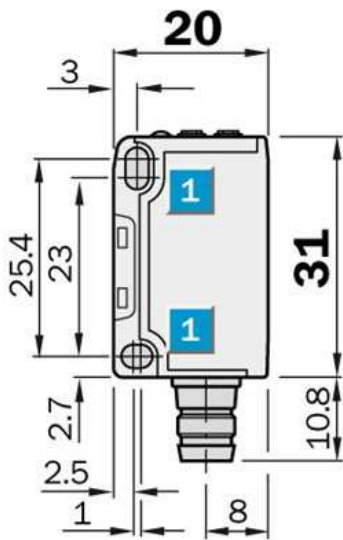
Design::	Rectangular
Dimensions (W x H x D):	11 mm x 31 mm x 20 mm
Supply voltage min ... max.:	DC 10 ... 30 V <sup>1)</sup>
Ripple:	± 10 %
Power consumption:	≤ 30 mA
Output type:	NPN: open collector: Q
Switching mode:	Light/dark switching via rotary switch
Signal voltage NPN HIGH/LOW:	Approx. $V_S / < 1.8 V$
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

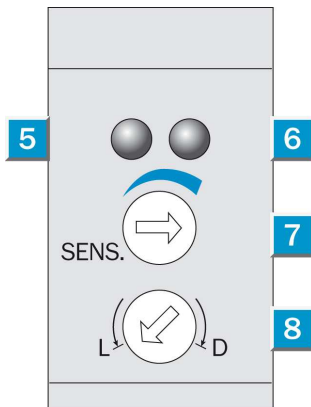
1) Limit values, reverse-polarity protected operation in short-circuit protected network max. 8 A

### Dimensional drawing

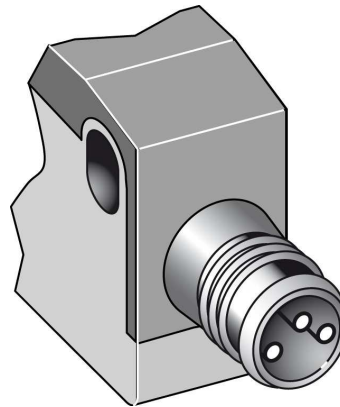


- |1| Mounting hole,  $\phi$  3.2 mm for M3
- |2| Center of optical axis, receiver
- |3| Center of optical axis, sender
- |4| Connection

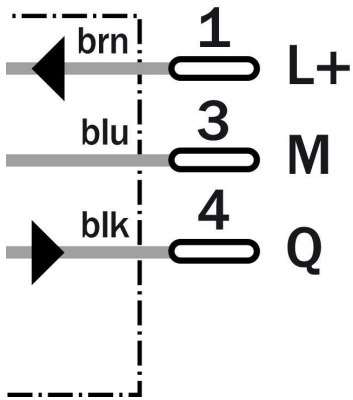
### Adjustment possible



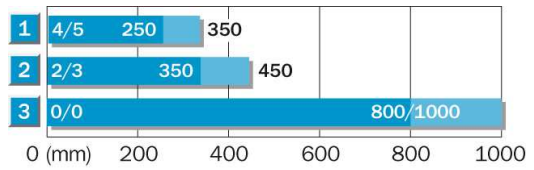
### Connection type



**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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