



Photoelectric sensors
Energetic, Photoelectric proximity sensor,
Product group W9-2

WT9-2N160



Model Name > [WT9-2N160](#)
Part No. > [1019342](#)



- Emitter LED IR
- Scanning distance adjustable
- Switching frequency 500/s
- Outputs short-circuit protected
- Permissible ambient operating temperature -40°C...+60°C

The product has been discontinued. Please contact your SICK sales representative for more information about a replacement product.



Product features

Sensing range min ... max::	50 mm ... 1,500 mm
Light source:	LED
Type of light:	Infrared light
Light spot diameter:	600 mm at 1500 mm distance
Laser:	Infrared light
Sensing range max.:	50 mm ... 1,500 mm
Relating to:	Object with 90 % reflectance (referred to standard white DIN 5033)
Adjustment::	Potentiometer

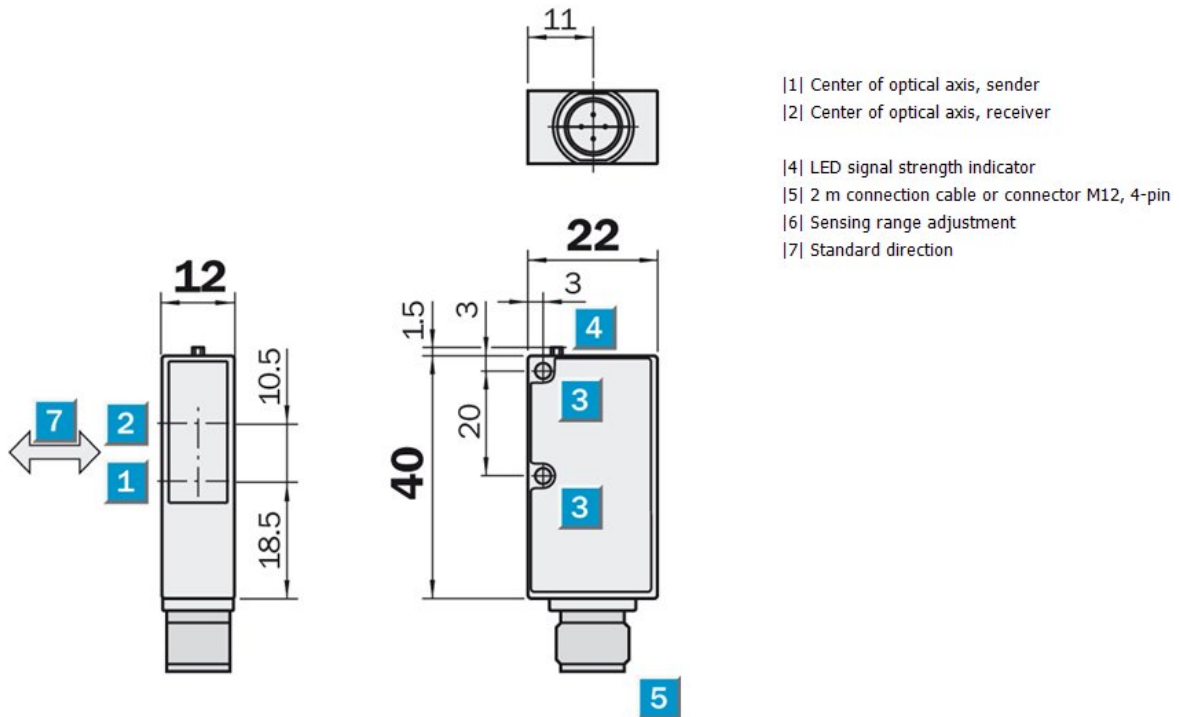
Technical data

Design::	Rectangular
Dimensions (W x H x D):	12 mm x 40 mm x 22 mm
Supply voltage min ... max:	DC 10 ... 30 V ¹⁾
Residual ripple:	≤ 5 Vpp
Power consumption:	≤ 30 mA
Output type:	NPN antivalent
Signal voltage NPN HIGH/LOW:	Vs/
Output current max.:	≤ 100 mA
Response time:	≤ 1,000 μs
Switching frequency::	500 Hz
Connection type:	Cable, 2 m
Number of cores:	4
Conductor size:	0.14 mm ²
Circuit protection:	V _s connections reverse-polarity protected/All outputs short-circuit protected/Interference suppression
Enclosure rating::	IP 67: EN 60529, IP 69K: EN 40050

Ambient operation temperature, min ... max: -40 °C ... +60 °C
 Ambient storage temperature, min ... max: -40 °C ... +75 °C
 Weight: Ca. 80 g
 Series: W9-2
 Front screen heating: -
 UL File No.: NRKH.E181493 & NRKH7.E181493

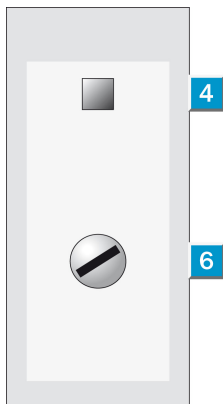
1) Limit values

Masszeichnung

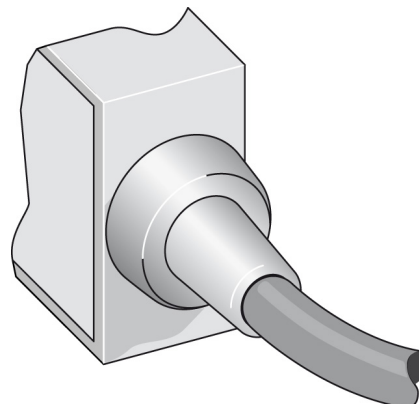


- |1| Center of optical axis, sender
- |2| Center of optical axis, receiver
- |4| LED signal strength indicator
- |5| 2 m connection cable or connector M12, 4-pin
- |6| Sensing range adjustment
- |7| Standard direction

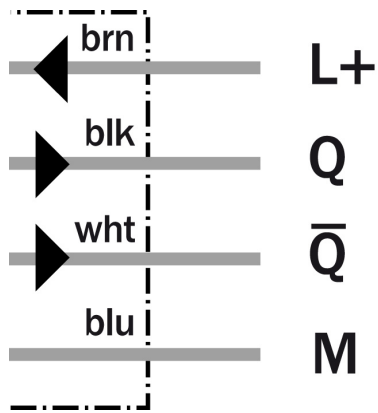
Einstell-Möglichkeiten



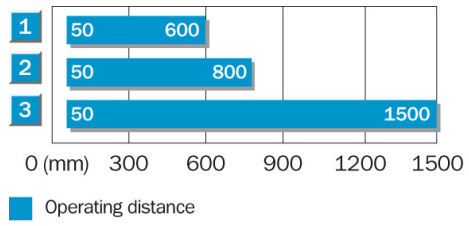
Anschlussart



Anschluss-Schema



Schaltabstand-Diagramm



- | | |
|---|---|
| 1 | Scanning range on black, 6 % remission |
| 2 | Scanning range on gray, 18 % remission |
| 3 | Scanning range on white, 90 % remission |

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