



Photoelectric sensors
Background suppression, Photoelectric proximity
sensor, Product series W9 Laser

WT9L-P330S02



Model Name > [WT9L-P330S02](#)
Part No. > [1026600](#)



- Marking: Ex II 3D T80 °C IP 67 X / Ex II 3G EEx nA II T4 X according to directive 94/9/EG (ATEX)
- Category 3D and 3G
- Laser red light, class 2
- Background suppression adjustable
- Switching frequency 1000/s

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



CDRH    

Product features

Sensing range min ... max:	30 mm ... 150 mm
Light source:	Laser diode
Type of light:	Laser, red light
Light spot diameter:	
Laser:	Laser, red light
Sensing range max.:	30 mm ... 150 mm
Relating to:	Object with 90 % reflectance (referred to standard white DIN 5033)
Adjustment:	Potentiometer
Laser class:	2 (EN 60825-1/CDRH 1040.10)

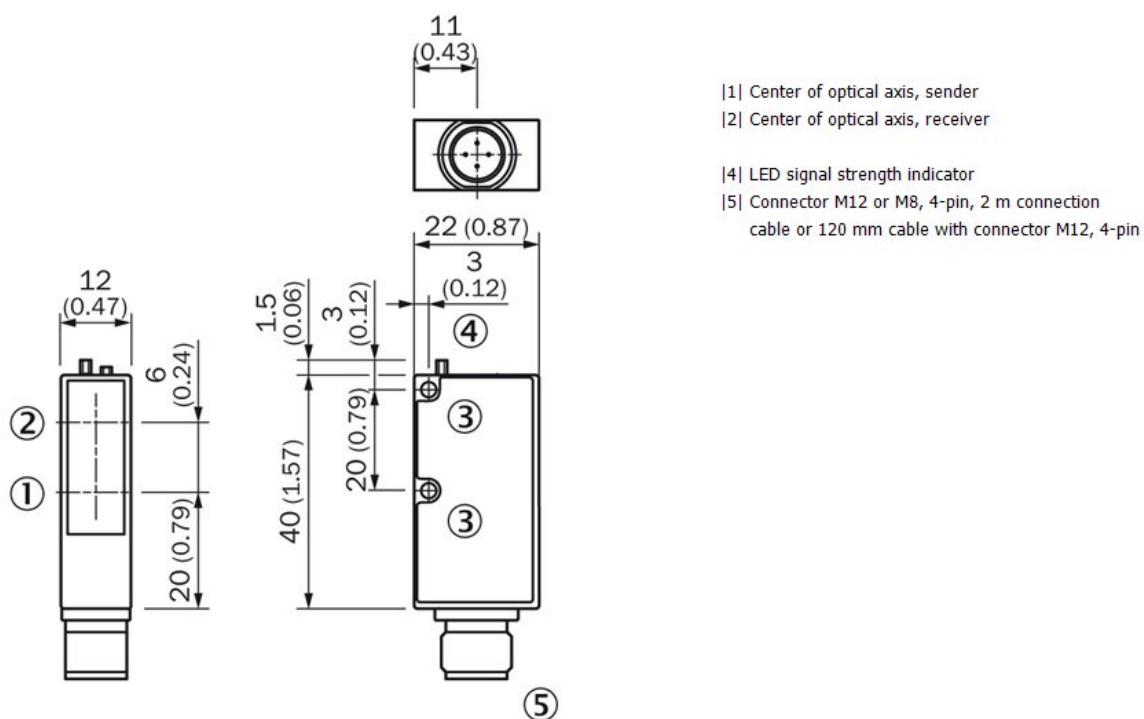
Technical data

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⁾
Ripple:	< 5 Vpp
Power consumption:	< 35 mA
Output current max.:	< 100 mA
Response time:	< 0.6 ms
Switching frequency:	1,000 Hz
Connection type:	Connector, M8, 4-pin
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:	-10 °C ... +50 °C

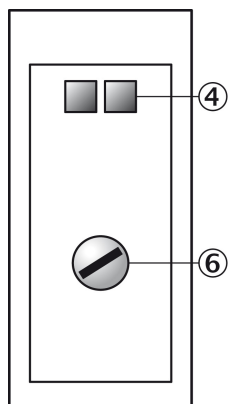
Ambient storage temperature, min ... max:	-25 °C ... +70 °C
Weight:	Ca. 20 g
Housing material:	ABS
Signal voltage PNP HIGH/LOW:	Vs - < 2 V / approx. 0 V
Series:	W9 Laser
Front screen heating:	-
Polarisation filter:	-
Hazardous area category:	3G/3D
ATEX marking:	EX II 3D T80 °C IP67 X, EX II 3G EEx nA II T4 X

1) Limit values

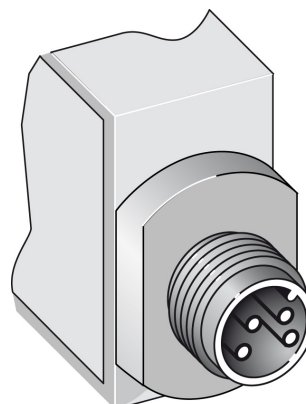
Masszeichnung



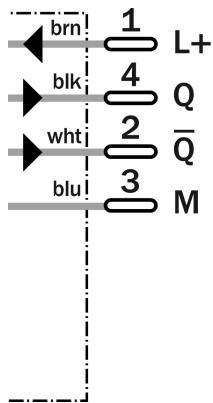
Einstell-Möglichkeiten



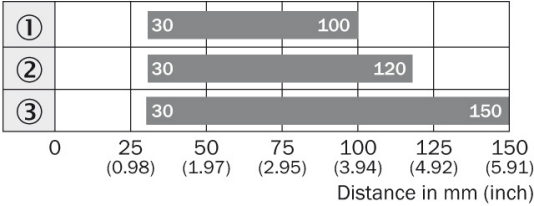
Anschlussart



Connection diagram



Schaltabstand-Diagramm



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

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