

ONLINE DATA SHEET
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Photoelectric sensors
W2S-2, Photoelectric proximity sensor, Background suppression

WTB2S-2P3260



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Model Name > WTB2S-2P3260
Part No. > 1063545





Illustration may differ

At a glance

- Sensing ranges of up to 150 mm
- Almost no black/white shift up to 60 mm
- Sensor with line-shaped light spot
- Sensor with laser-like focused light spots
- Precise background suppression that is immune to interference/crosstalk
- High-performance PinPoint 2.0 LED

Your benefits

- An ultra-compact design with the performance of large photoelectric proximity sensors offers new space-saving machine construction possibilities.
- Large variety of proximity sensors and operating concepts enable a wide range of application options
- Use in confined spaces: detection of small, flat parts thanks to high-quality background suppression and almost nonexistent black/white shift
- Remote access: models with IO-Link allow data to be easily accessed from the PLC
- High availability and long-term use in grippers thanks to flexible and rugged cable entry

CE PinPoint 2.0 by SICK

Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	7.7 mm x 21.8 mm x 13.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	1 mm ... 66 mm [1)]
Sensing range:	5 mm ... 60 mm [2)]
Type of light:	Visible red light
Light source:	PinPoint LED [3)]
Wave length:	640 nm
Light spot size (distance):	Ø 4.5 mm (40 mm)
Background suppression typ. from:	70 mm

[1)] [2)] Object with 90 % reflectance (referred to standard white, DIN 5033) [3)] Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

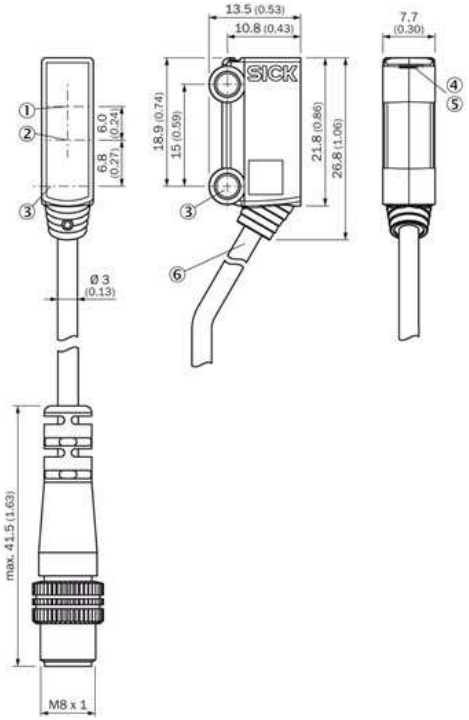
Supply voltage:	10 V DC ... 30 V DC [1)]
Ripple:	≤ 5 Vpp [2)]
Power consumption:	≤ 20 mA [3)]

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Output type:	PNP
Switching mode:	Light/dark switching
Output current Imax.:	< 50 mA
Response time:	< 0.5 ms [4]
Switching frequency:	1,000 Hz [5]
Connection type:	Cable with connector M8, 4-pin, 200 mm [6]
Cable material:	PVC
Cable diameter:	Ø 3 mm
Circuit protection:::	A, B, D [7] [8] [9]
IO-Link:	-
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient temperature operation:	-25 °C ... +50 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493
Housing material:	ABS/PC, Plastic

[1] Limit values [2] May not exceed or fall short of V_S tolerances [3] Without load [4] Signal transit time with resistive load [5] With light/dark ratio 1:1 [6] Do not bend below 0 °C [7] A = V_S connections reverse-polarity protected [8] B = output reverse-polarity protected [9] D = outputs overcurrent and short-circuit protected

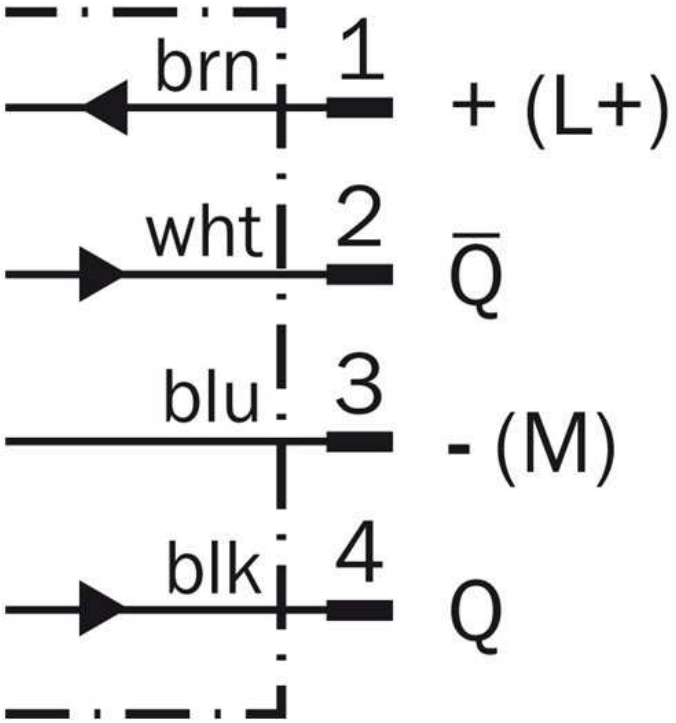
Dimensional drawing



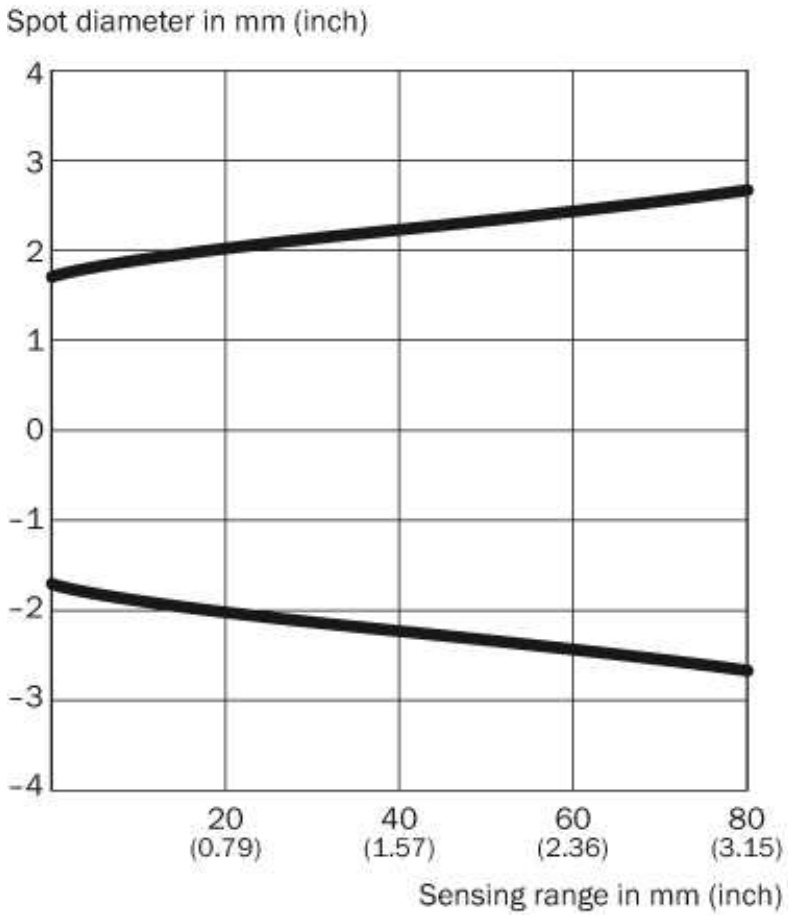
|1| Optical axis, receiver
|2| Optical axis, sender
|3| Middle axis fixing hole Ø 3.2 mm
|4| Status indicator LED green: supply voltage on
|5| Status indicator LED,
yellow: Status of received light beam
|6| Connection

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Connection diagram



Light spot size

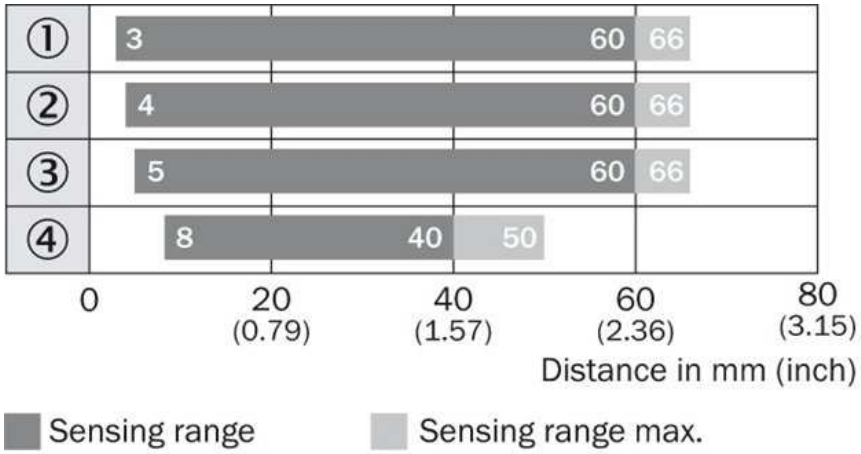


Dimensions in mm (inch)

Sensing range	Spot diameter
10 **(0.39)**	3.8 (0.15)
20 **(0.79)**	4.0 (0.16)
40 **(1.57)**	4.5 (0.18)
80 **(3.15)**	5.4 (0.21)

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Sensing range diagram



|1| Sensing range on white, 90 % remission
|2| Sensing range on gray, 18 % remission
|3| Sensing range on black, 6 % remission
|4| Sensing range on ultrablack, 1 % remission

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