



Photoelectric sensors
W2 Slim, Photoelectric proximity sensor,
Background suppression

WT2S-P231S25



Photoelectric sensors W2 Slim, Photoelectric proximity sensor, Background suppression

Model Name > [WT2S-P231S25](#)
Part No. > [1065312](#)



Illustration may differ

At a glance

- Best detection of low remission objects and deep blue object due to a high intensive blue light
- High reliable detection of blue solar cells with an anti-reflection coating
- Fixed sensing range 35 mm

Your benefits

- Precise recognition of all objects regardless of color or composition
- V-optics reliably detects transparent and glossy objects
- Highly immunity to reflective and critical backgrounds, enabling use in the most restricted machine environments



Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	7.6 mm x 25.1 mm x 12.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	1 mm ... 35 mm ¹⁾
Sensing range:	1 mm ... 35 mm ²⁾
Type of light:	Visible blue light
Wave length:	460 nm
Focus adjustable:	-
Focus:	15 mm
Light spot size (distance):	1,5 x 3 mm (15 mm)

^{1) 2)} Object with 90 % reflectance (referred to standard white DIN 5033)

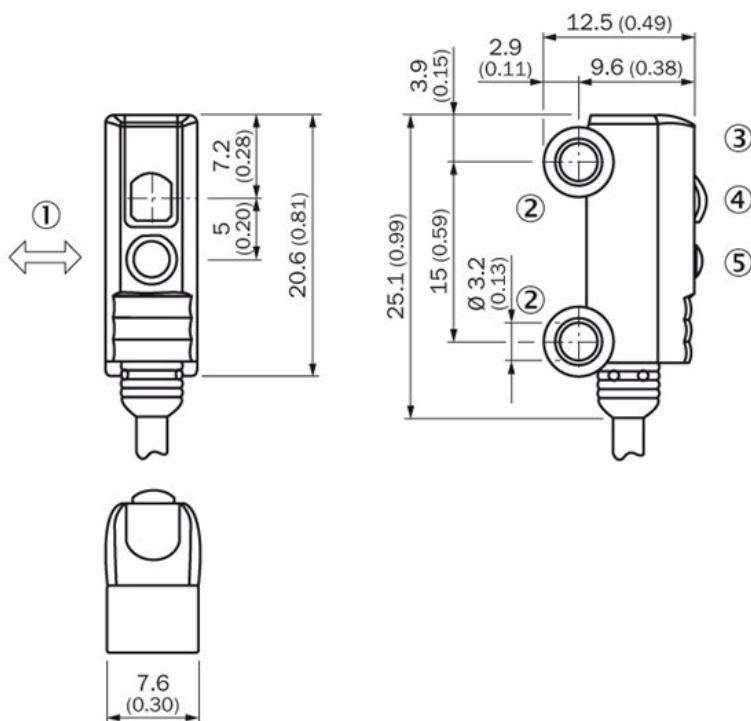
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Output type:	PNP
Switching mode:	Light switching
Output current I _{max} :	≤ 50 mA
Response time:	< 0.6 ms ²⁾
Switching frequency:	± 800 Hz ³⁾
Connection type:	Cable with connector M8, 3-pin, 200 mm ⁴⁾
Cable material:	PVC
Cable diameter:	Ø 2.4 mm

Circuit protection:::	A, C, D ^{5) 6) 7)}
Weight:	20 g
Polarisation filter:	-
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67 IP 69K
Ambient operating temperature:	-20 °C ... 50 °C
Ambient storage temperature:	-40 °C ... 75 °C

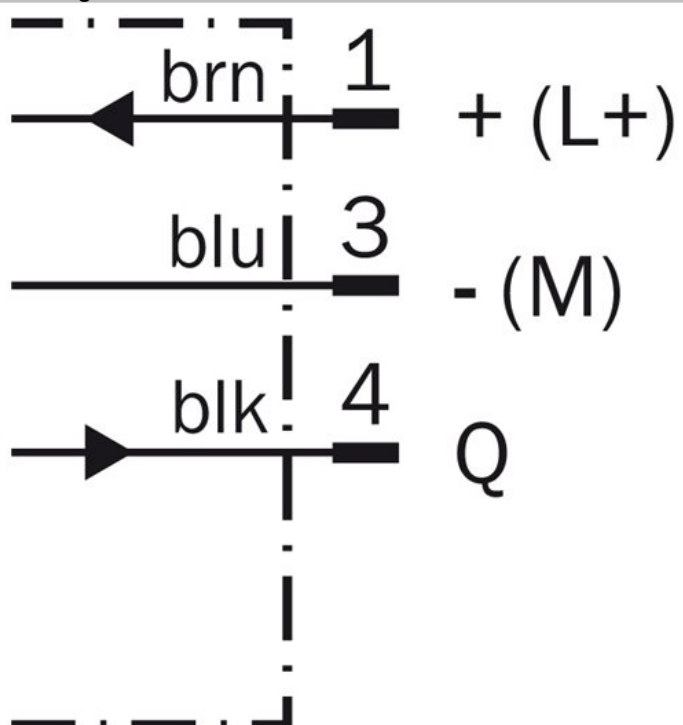
¹⁾ Limit values ²⁾ Signal transit time with resistive load ³⁾ With light/dark ratio 1:1 ⁴⁾ Do not bend below 0 °C ⁵⁾ A = V_S connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing

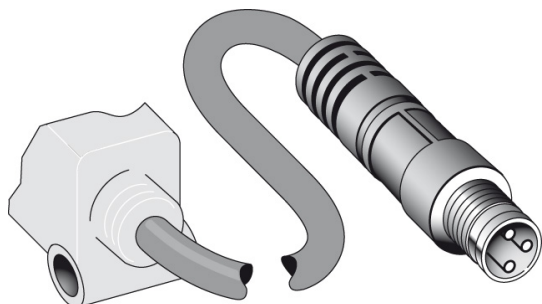


- |1| Standard direction of the material being scanned
- |2| Mounting hole, $\varnothing$ approx. 3.1 mm
- |3| Receive indicator
- |4| Optical axis receiver
- |5| Optical axis, sender

Connection diagram



Connection type



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