



Photoelectric sensors
W2 Slim, Photoelectric proximity sensor,
Background suppression

WT2S-P231S25



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 30 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

Note: This product will be discontinued and replaced by a successor - orders will be accepted until January 31st 2015



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 ... 30 mm ¹⁾
Sensing range:	1 mm ... 28 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)

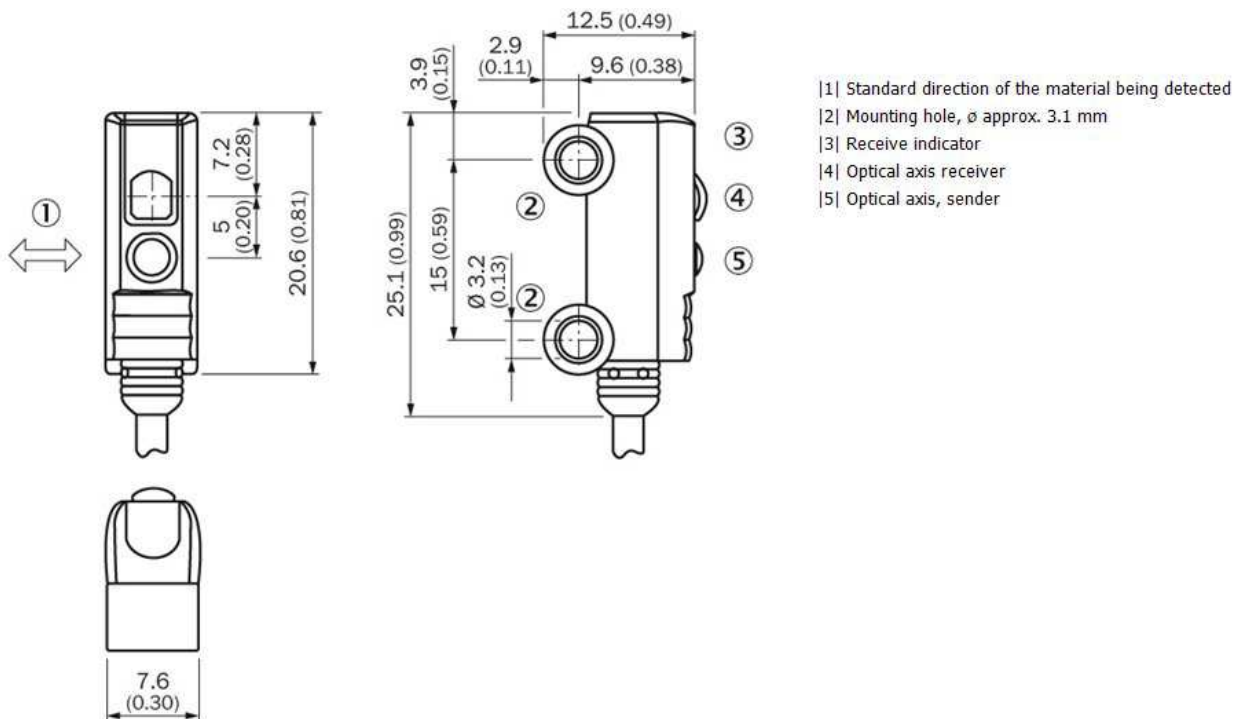
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	≤ 5 Vpp ²⁾
Output type:	PNP
Switching mode:	Light switching
Output current I _{max.} :	≤ 50 mA
Response time:	< 0.6 ms ³⁾
Switching frequency:	± 800 Hz ⁴⁾

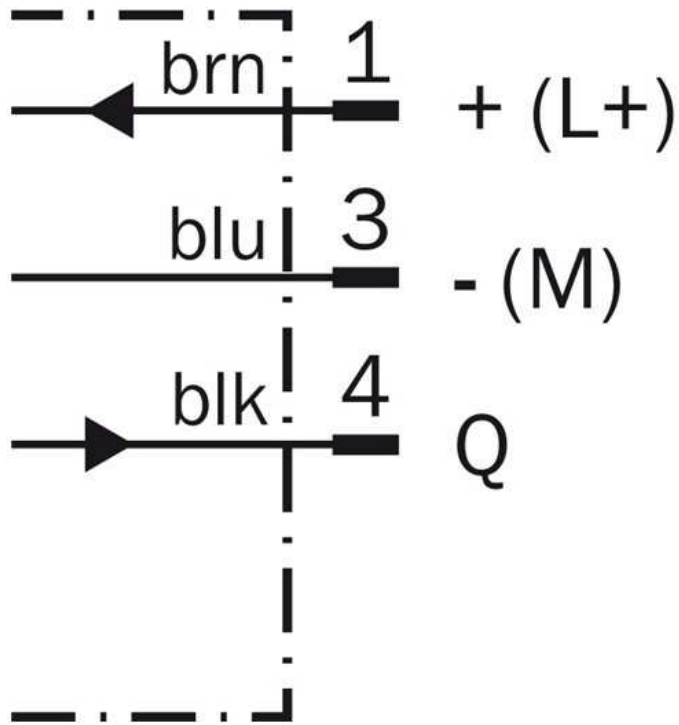
Connection type:	Cable with connector M8, 3-pin, 200 mm ⁵⁾
Cable material:	PVC
Cable diameter:	Ø 2.4 mm
Circuit protection:::	A, C, D ^{6) 7) 8)}
Weight:	20 g
Polarisation filter:	-
Special device:	✓
Reverse polarity protection:	✓
Short-circuit protection:	✓
Optics material:	PMMA
Enclosure rating:	IP 67 IP 69K
Ambient temperature operation:	-20 °C ... +50 °C
Ambient storage temperature:	-40 °C ... +75 °C
Housing material:	ABS, Plastic

1) Limit values 2) May not exceed or fall short of V_S tolerances 3) Signal transit time with resistive load 4) With light/dark ratio 1:1 5) Do not bend below 0 °C 6) A = V
S connections reverse-polarity protected 7) C = interference suppression 8) D = outputs overcurrent and short-circuit protected

Dimensional drawing



Connection diagram



Connection type



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