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Photoelectric sensors
W18-3, Photoelectric proximity sensor, Background suppression

WT18-3P610S30

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Type	**> WT18-3P610S30**
Part No.	**> 1043064**

Illustration may differ

At a glance

- Sender LED with infrared light
- Precise background suppression
- Adjustable sensing distance
- Immune to ambient light
- Rugged plastic housing

Your benefits

- Long sensing distances due to high-performance infrared light
- Reliable object detection with high-precision background suppression due to second sender LED
- Quick and easy sensing range adjustment
- Crosstalk and ambient light immunity reduce false readings and downtime
- High availability in the field

Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	17.6 mm x 75.5 mm x 33.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	10 mm ... 700 mm [1]
Sensing range:	50 mm ... 700 mm [2]
Type of light:	Infrared light
Light source:	LED [3]
Special features:	Heightened vibration resistance
Adjustment:	Potentiometer, 4 turns
Light spot size (distance):	Ø 20 mm (400 mm)
Continuous threshold adaption:	-

[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:	55 mA [3]
Output type:	PNP
Switching mode:	Light/dark switching
Output current Imax.:	100 mA

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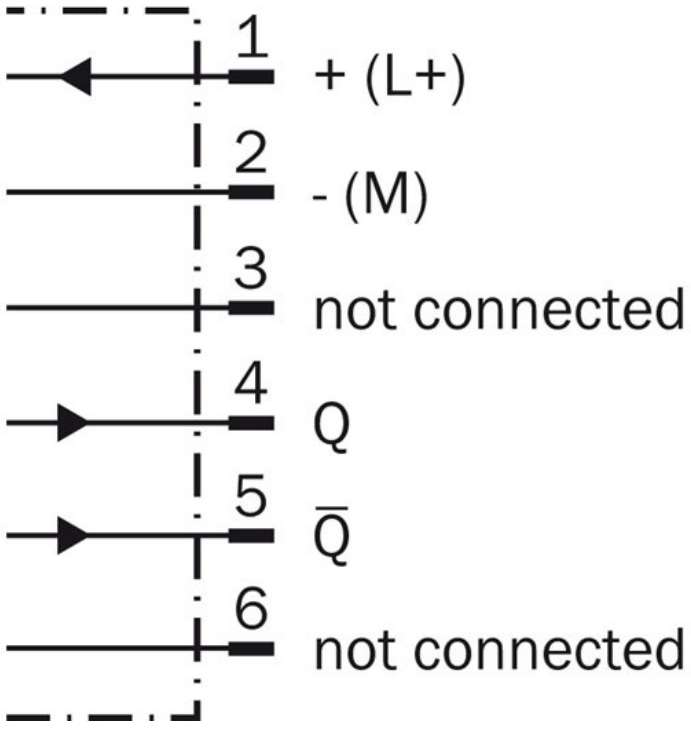
Response time:	< 700 µs [4]
Switching frequency:	700 Hz [5]
Connection type:	Cubic connector, 6-pin
Circuit protection:::	A, C, D [6] [7] [8]
Weight:	70 g
Special device:	✓
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 65
Ambient operating temperature:	-40 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

[1] Limit values, operation in short-circuit protected network max. 8 A [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] A = V_S connections reverse-polarity protected [7] C = interference suppression [8] D = outputs overcurrent and short-circuit protected

Connection diagram



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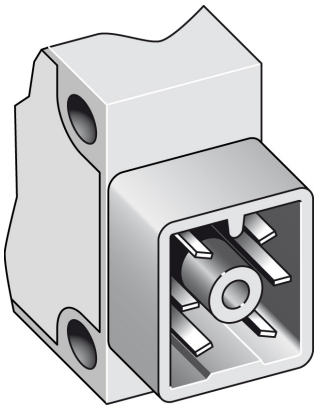
Connection type



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