



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

WT18-3P610S30



Model Name > **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, Slim
Sensing range max.:	10 mm ... 700 mm ¹⁾
Sensing range:	50 mm ... 700 mm ²⁾
Type of light:	Infrared light
Light source:	LED ³⁾
Wave length:	870 nm
Adjustment:	Potentiometer, 4-turn
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

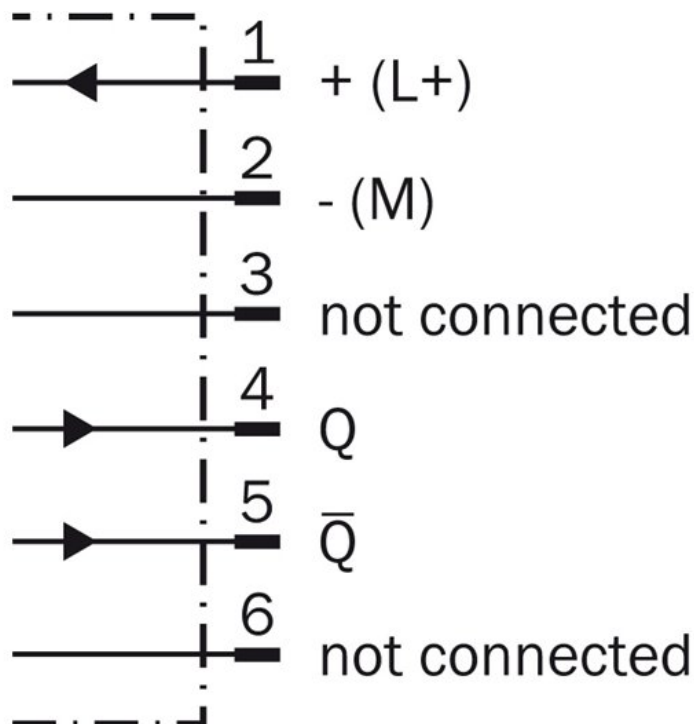
Mechanics/electronics

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 I _{max} :	100 mA

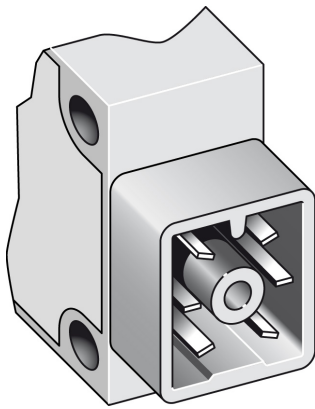
Response time:	< 700 μ s ⁴⁾
Switching frequency:	700 Hz ⁵⁾
Connection type:	Cubic connector, 6-pin
Circuit protection:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Weight:	70 g
Special device:	✓
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 65
Special features:	Heightened vibration resistance
Ambient 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



Connection type



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