

WT18-3P610S30

W18-3

**SMALL PHOTOELECTRIC SENSORS** 





### Ordering information

Туре	Part no.
WT18-3P610S30	1043064

Other models and accessories → www.sick.com/W18-3

Illustration may differ



### Detailed technical data

#### **Features**

Functional principle	Photoelectric proximity sensor
Functional principle detail	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 <sup>1)</sup>
Sensing range	50 mm 700 mm <sup>1)</sup>
Type of light	Infrared light
Light source	LED <sup>2)</sup>
Light spot size (distance)	Ø 20 mm (400 mm)
Wave length	870 nm
Adjustment	Potentiometer, 4 turns
Special features	Heightened vibration resistance

 $<sup>^{1)}</sup>$  Object with 90% remission (based on standard white, DIN 5033).

### Mechanics/electronics

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Supply voltage	10 V DC 30 V DC <sup>1)</sup>

 $<sup>^{1)}</sup>$  Limit values when operated in short-circuit protected network: max. 8 A.

 $<sup>^{2)}</sup>$  Average service life: 100,000 h at  $T_{U}$  = +25 °C.

 $<sup>^{2)}\,\</sup>mbox{May}$  not exceed or fall below  $\mbox{U}_{\mbox{\scriptsize V}}$  tolerances.

<sup>3)</sup> Without load.

<sup>&</sup>lt;sup>4)</sup> Signal transit time with resistive load.

<sup>&</sup>lt;sup>5)</sup> With light/dark ratio 1:1.

 $<sup>^{6)}</sup>$  A = V<sub>S</sub> connections reverse-polarity protected.

<sup>&</sup>lt;sup>7)</sup> C = interference suppression.

 $<sup>^{\</sup>rm 8)}$  D = outputs overcurrent and short-circuit protected.

Ripple	< 5 V <sub>pp</sub> <sup>2)</sup>
Current consumption	55 mA <sup>3)</sup>
Switching output	PNP
Switching mode	Light/dark switching
Output current I <sub>max.</sub>	≤ 100 mA
Response time	< 700 µs <sup>4)</sup>
Switching frequency	700 Hz <sup>5)</sup>
Connection type	Cubic connector, 6-pin
Circuit protection	A <sup>6)</sup> C <sup>7)</sup> D <sup>8)</sup>
Weight	70 g
Special device	✓
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP65
Ambient operating temperature	-40 °C +60 °C
Ambient temperature, storage	-40 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

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### Classifications

eCl@ss 5.0	27270904
eCl@ss 5.1.4	27270904
eCl@ss 6.0	27270904
eCl@ss 6.2	27270904
eCl@ss 7.0	27270904
eCl@ss 8.0	27270904
eCl@ss 8.1	27270904
eCl@ss 9.0	27270904
eCl@ss 10.0	27270904
eCl@ss 11.0	27270904
eCl@ss 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719

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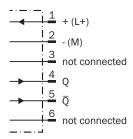
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

### Connection type



### Connection diagram

### Cd-176



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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

