

WTB140-P430

PRODUCT PORTFOLIO



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# Ordering information

Туре	Part no.
WTB140-P430	6012643

Other models and accessories → www.sick.com/

Illustration may differ



### Detailed technical data

### **Features**

Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	11 mm x 31 mm x 20 mm
Housing design (light emission)	Rectangular
Sensing range max.	2 mm 500 mm <sup>1)</sup>
Sensing range	15 mm 500 mm <sup>1)</sup>
Type of light	Visible red light
Light source	LED
Wave length	680 nm

 $<sup>^{1)}</sup>$  Object with 90 % reflectance (referred to standard white, DIN 5033).

### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Power consumption	$\leq$ 30 mA $^{1)}$
Switching output	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark rotary switch
Response time	$\leq$ 0.5 ms $^{2)}$
Connection type	Connector M8, 4-pin
Housing material	Plastic, PBT
Optics material	Plastic, PC
Enclosure rating	IP67
Ambient operating temperature	-25 °C +55 °C

 $<sup>^{1)}</sup>$  Without load.

 $<sup>^{2)}</sup>$  Signal transit time with resistive load.

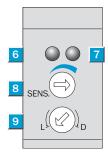
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

 $<sup>^{1)}</sup>$  Without load.

### Classifications

ECI@ss 5.0	27270904
ECI@ss 5.1.4	27270904
ECI@ss 6.0	27270904
ECI@ss 6.2	27270904
ECI@ss 7.0	27270904
ECI@ss 8.0	27270904
ECI@ss 8.1	27270904
ECI@ss 9.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

# Adjustments possible



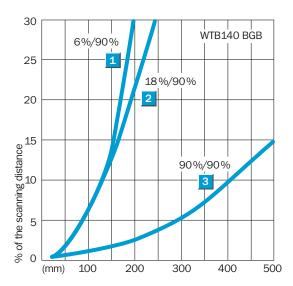
- Green LED indicator: light reception with operating reserve >1.1 and < 0.9</li>
  Orange LED indicator: switching output active
  Sensing range adjustment: potentiometer, 5 turns
  Light/ dark rotary switch: L = light switching, D = dark switching

# Connection diagram



 $<sup>^{2)}\,\</sup>mathrm{Signal}$  transit time with resistive load.

#### Characteristic curve



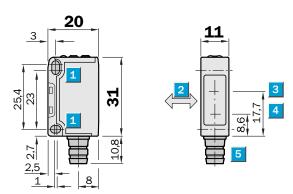
### Sensing range diagram



Operating range



### Dimensional drawing (Dimensions in mm (inch))



- ① Mounting hole, ø 3.2 mm for M3
- ② Standard direction of the material being detected
- 3 Center of optical axis, receiver
- 4 Center of optical axis, sender
- ⑤ Connection

# SICK AT A GLANCE

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:**

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