

WTB140-P430





Ordering information

Туре	Part no.
WTB140-P430	6012643

Other models and accessories → www.sick.com/





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 ¹⁾
Sensing range	15 mm 500 mm ¹⁾
Type of light	Visible red light
Light source	LED
Wave length	680 nm

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Power consumption	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	Male connector M8, 4-pin
Housing material	Plastic, PBT
Optics material	Plastic, PC
Enclosure rating	IP67

¹⁾ Without load

 $^{^{2)}}$ Signal transit time with resistive load.

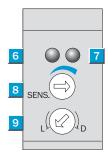
Ambient operating temperature	-25 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ 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



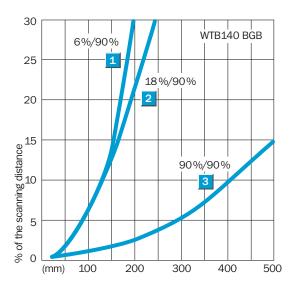
- 6 Green LED indicator: light reception with operating reserve >1.1 and < 0.9
- ① Orange LED indicator: switching output active
 ③ Sensing range adjustment: potentiometer, 5 turns
- Light/ dark rotary switch: L = light switching, D = dark switching

Connection diagram

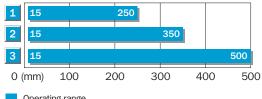


²⁾ Signal transit time with resistive load.

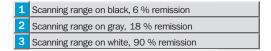
Characteristic curve



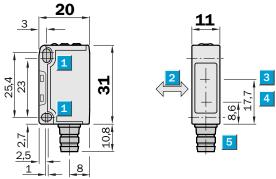
Sensing range diagram



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

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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.

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For us, that is "Sensor Intelligence."

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