



WTB140-P430

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WTB140-P430	6012643

Other models and accessories → www.sick.de/

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⁾
Output type	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark rotary switch
Response time	≤ 0.5 ms ²⁾
Connection type	Connector M8, 4-pin
Housing material	PBTplastic
Optics material	PC
Enclosure rating	IP 67
Ambient operating temperature	-25 °C ... +55 °C

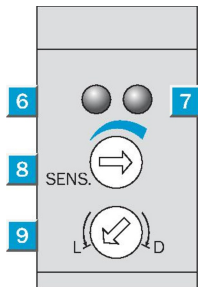
¹⁾ Without load.

²⁾ Signal transit time with resistive load.

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

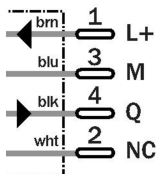
- 1) Without load.
2) Signal transit time with resistive load.

Adjustments possible

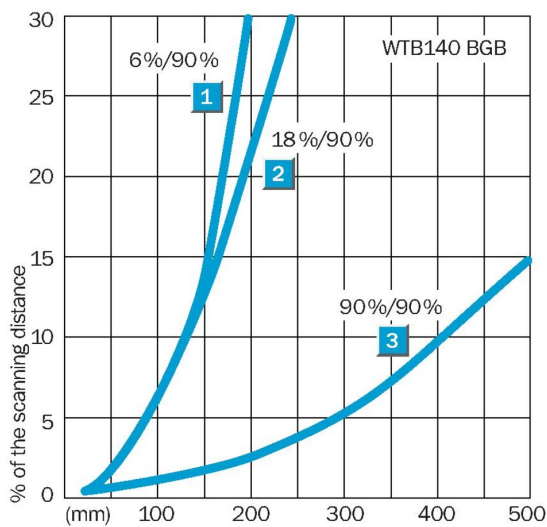


- ⑥ Green LED indicator: light reception with operating reserve >1.1 and < 0.9
- ⑦ Orange LED indicator : switching output active
- ⑧ Sensing range adjustment: potentiometer, 5 turns
- ⑨ Light/ dark rotary switch: L = light switching, D = dark switching

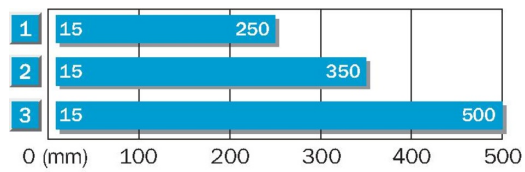
Connection diagram



Characteristic curve



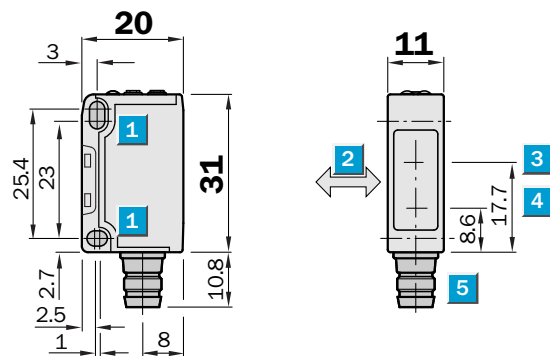
Sensing range diagram



Operating range

1	Scanning range on black, 6 % remission
2	Scanning range on gray, 18 % remission
3	Scanning range on white, 90 % remission

Dimensional drawing (Dimensions in mm (inch))



- ① Mounting hole, $\varnothing$ 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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