WT12-2P430

SICK
Sensor Intelligence.

WT12-2P430

Illustration may differ

Ordering information

Type	Part no.
WT12-2P430	1016134

Other models and accessories ➜ www.sick.com/

Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Dimensions (W x H x D)	15 mm x 49 mm x 41.5 mm
Housing design (light emission)	Rectangular
Sensing range max.	20 mm ... 250 mm [1]
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Type of light	Visible red light
Light source	LED
Adjustment	Potentiometer

[1] Object with 90% remission (based on standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	< 5 V_{pp}
Current consumption	30 mA [1]
Switching output	PNP
Switching mode	Light/dark switching
Response time	≤ 330 µs [2]
Connection type	Male connector M12, 4-pin
Housing material	Metal, zinc diecast Metal, zinc diecast
Optics material	Plastic, PMMA

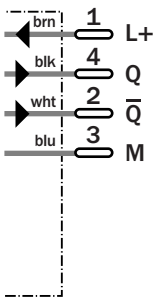[1] Without load.
[2] Signal transit time with resistive load.

Enclosure rating	IP69K
Ambient operating temperature	−40 °C ... +60 °C
Ambient temperature, storage	−40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

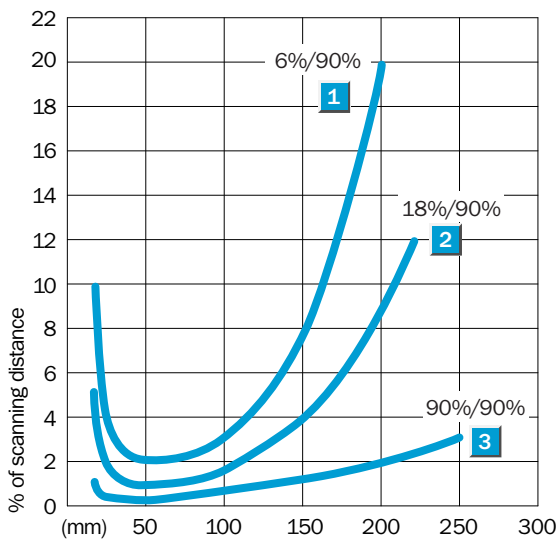[1] Without load.
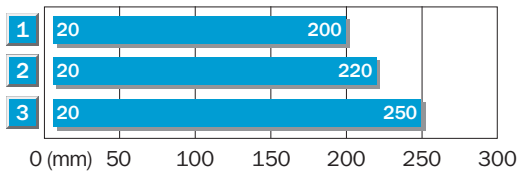[2] Signal transit time with resistive load.

Connection type
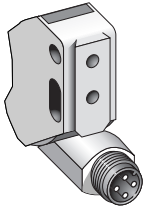
Connection diagram

```
brn  1  L+
blk  4  Q
wht  2  Q̄
blu  3  M
```

Characteristic curve

6%/90% 1
18%/90% 2
90%/90% 3

Y-axis: % of scanning distance (0 to 22)
X-axis: (mm) 50 100 150 200 250 300

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Sensing range diagram

1	20	200
2	20	220
3	20	250

0 (mm) 50   100   150   200   250   300

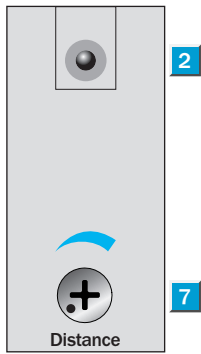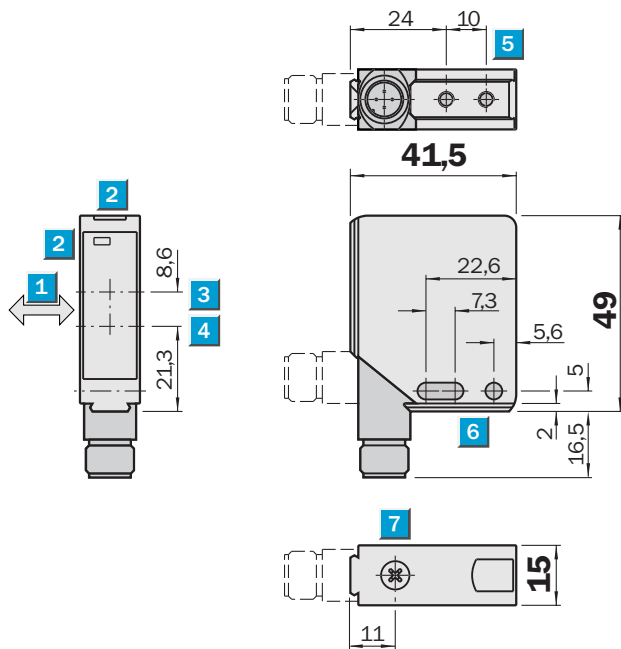|	
1	Scanning distance on black, 6 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on white, 90 % remission

Adjustments

② LED signal strength indicator
⑦ Adjustment of sensing range

Dimensional drawing (Dimensions in mm (inch))

① Standard direction of the material being detected
② LED signal strength indicator
③ Optical axis, receiver
④ Optical axis, sender
⑤ M4 threaded mounting hole – 4 mm depth
⑥ Mounting hole, Ø 4.2 mm
⑦ Adjustment of sensing range

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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