



WLL170A-V430

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
WLL170A-V430	6021080

Other models and accessories → www.sick.com/

Illustration may differ



Detailed technical data

Features

Dimensions (W x H x D)	9 mm x 38.5 mm x 60 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 mm ... 550 mm ¹⁾
Sensing range	0 mm ... 100 mm ¹⁾
Type of light	Visible red light
Light source	LED

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

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Current consumption	40 mA ¹⁾
Switching mode	Light/dark switching
Response time	≤ 1 ms ²⁾
Connection type	Male connector M8, 4-pin
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP50
Ambient operating temperature	-25 °C ... +55 °C
Ambient temperature, storage	-40 °C ... +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

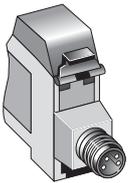
Safety-related parameters

MTTF_D	525 years
DC_{avg}	0 %

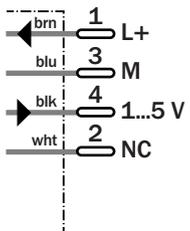
Classifications

eCl@ss 5.0	27270905
eCl@ss 5.1.4	27270905
eCl@ss 6.0	27270905
eCl@ss 6.2	27270905
eCl@ss 7.0	27270905
eCl@ss 8.0	27270905
eCl@ss 8.1	27270905
eCl@ss 9.0	27270905
eCl@ss 10.0	27270905
eCl@ss 11.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
ETIM 8.0	EC002651
UNSPSC 16.0901	39121528

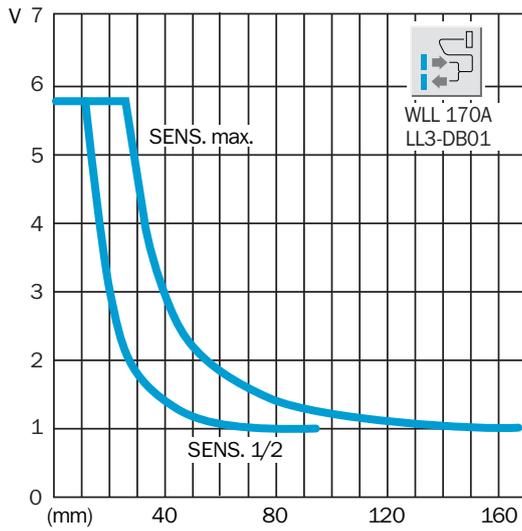
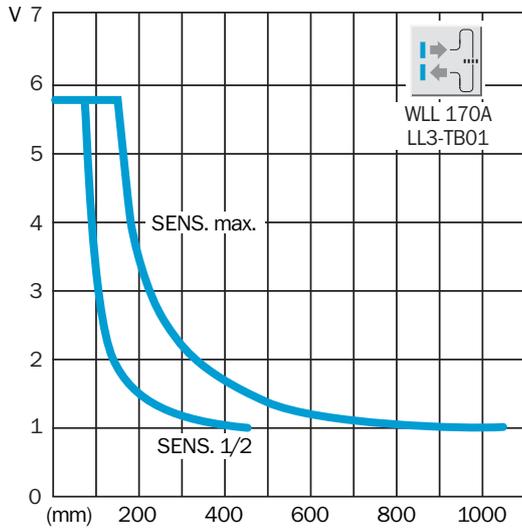
Connection type



Connection diagram



Characteristic curve

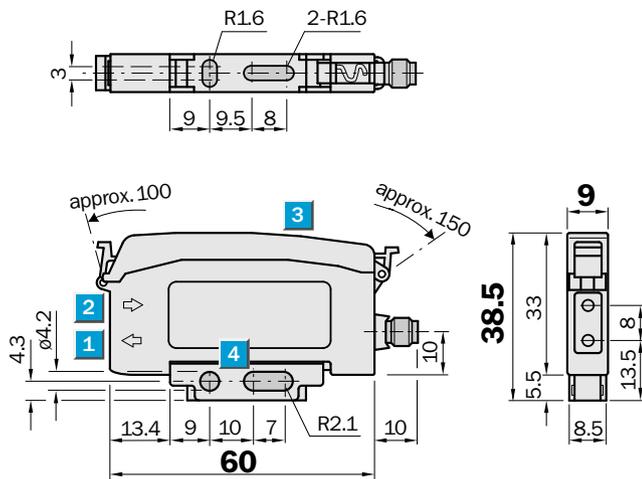


Adjustments



- ⑤ Green LED indicator: no light reception or analog output saturated (>5 V)
- ⑥ Red LED indicator: lights up for light reception (analog output active)
- ⑦ Sensitivity scale, min./max. = 270°
- ⑧ Sensitivity control (min./max.= 7 revolutions)
- ⑨ Selector switch for analogue output response time

Dimensional drawing (Dimensions in mm (inch))



- ① Sender LED, installation of LL3 fibre-optic cable (sender fibre)
- ② Receiver, installation of LL3 fibre optic cable (receiver fibre)
- ③ Protective hood: can be raised at both ends, removable
- ④ Mounting bracket, included with delivery

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:

Contacts and other locations –www.sick.com