



WLL170A-V430

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
WLL170A-V430	6021080

Other models and accessories → [www.sick.com/](http://www.sick.com/)

Illustration may differ



## Detailed technical data

### Features

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

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

### Mechanics/electronics

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

<sup>1)</sup> Without load.

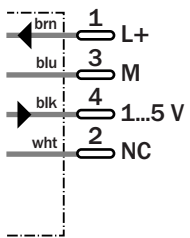
<sup>2)</sup> Signal transit time with resistive load.

### Classifications

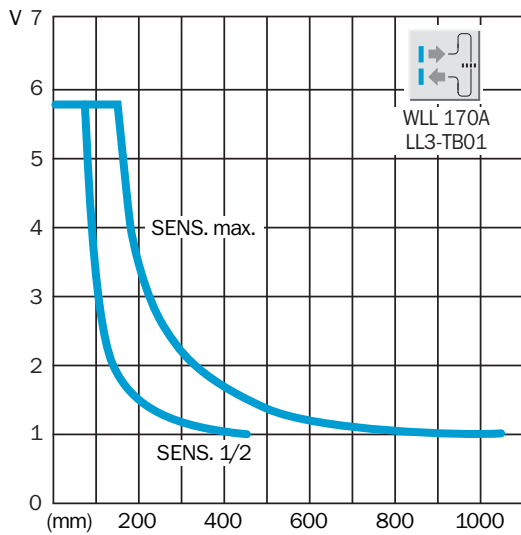
<b>ECl@ss 5.0</b>	27270905
<b>ECl@ss 5.1.4</b>	27270905

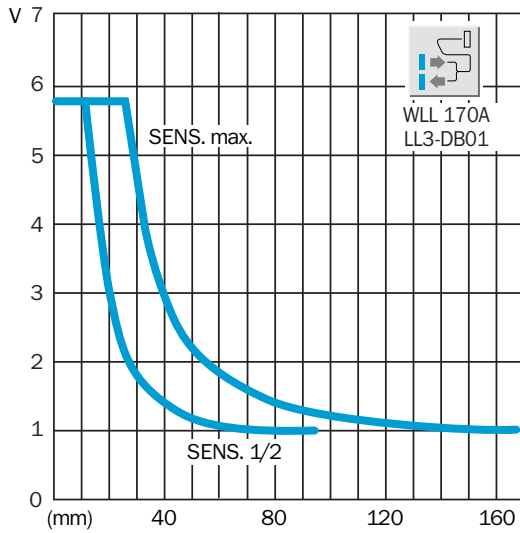
<b>ECI@ss 6.0</b>	27270905
<b>ECI@ss 6.2</b>	27270905
<b>ECI@ss 7.0</b>	27270905
<b>ECI@ss 8.0</b>	27270905
<b>ECI@ss 8.1</b>	27270905
<b>ECI@ss 9.0</b>	27270905
<b>ETIM 5.0</b>	EC002651
<b>ETIM 6.0</b>	EC002651
<b>UNSPSC 16.0901</b>	39121528

Connection diagram



Characteristic curve



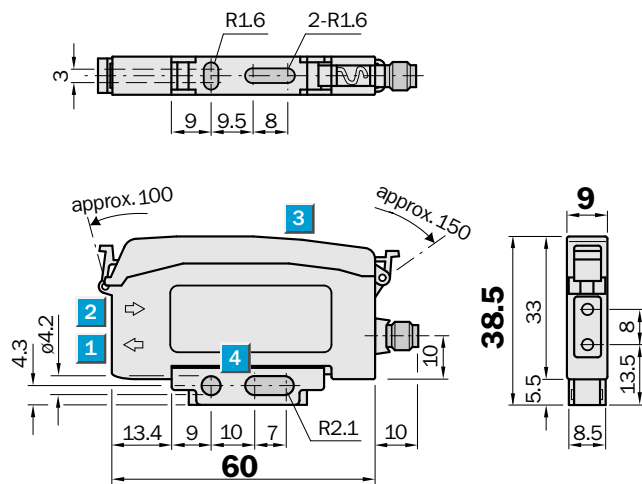


## Adjustments possible



- 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](http://www.sick.com)