



WL14-P430

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|-----------|----------|
| WL14-P430 | 1012925 |

Other models and accessories → www.sick.com/

Illustration may differ



Detailed technical data

Features

| | |
|--|---------------------------------------|
| Functional principle | Photoelectric retro-reflective sensor |
| Dimensions (W x H x D) | 17 mm x 75 mm x 32.5 mm |
| Housing design (light emission) | Rectangular |
| Sensing range max. | 0.1 m ... 5 m ¹⁾ |
| Sensing range | 0.5 m ... 7 m ¹⁾ |
| Type of light | Visible red light |
| Light source | LED |

¹⁾ Reflector PL80A.

Mechanics/electronics

| | |
|--------------------------------------|------------------------------|
| Supply voltage | 18 V DC ... 30 V DC |
| Ripple | < 5 V _{pp} |
| Current consumption | 25 mA ¹⁾ |
| Switching output | PNP |
| Switching mode | Light/dark switching |
| Response time | < 2.5 ms ²⁾ |
| Connection type | Male connector M12, 4-pin |
| Housing material | Plastic, ABS Plastic, ABS |
| Optics material | Plastic, PMMA |
| Enclosure rating | IP65 |
| Ambient operating temperature | -25 °C ... +60 °C |
| Ambient temperature, storage | -40 °C ... +70 °C |
| UL File No. | NRKH.E181493 & NRKH7.E181493 |

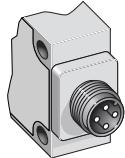
¹⁾ Without load.

²⁾ Signal transit time with resistive load.

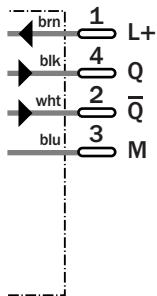
Safety-related parameters

| | |
|-------------------------|-------------|
| MTTF_D | 1,131 years |
| DC_{avg} | 0 % |

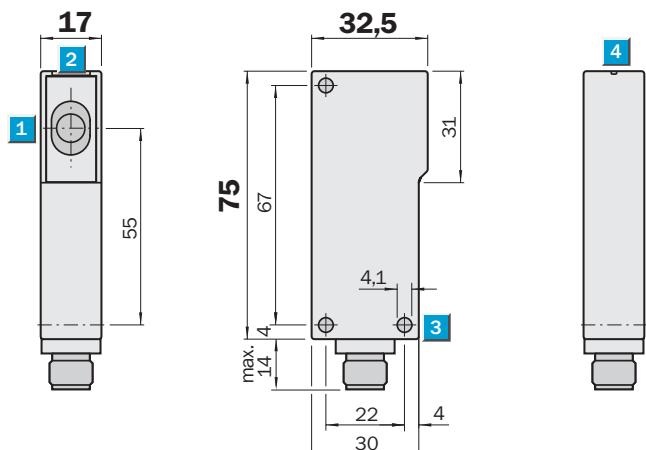
Connection type



Connection diagram



Dimensional drawing (Dimensions in mm (inch))



- ① Center of optical axis
- ② Function signal indicator (yellow)
- ③ Mounting hole, Ø 4.1 mm
- ④ Alignment sight

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