



DATA SHEET

# WL27-2F730

Photoelectric sensors

# SICK

Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

WL27-2F730

ORDERING INFORMATION

| Type       | part no. |
|------------|----------|
| WL27-2F730 | 1015104  |

Further device versions and accessories at [www.sick.com/](http://www.sick.com/)

DETAILED TECHNICAL DATA

FEATURES

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Functional principle            | Photoelectric retro-reflective sensor |
| Dimensions (W x H x D)          | 24.6 mm x 80 mm x 53.5 mm             |
| Housing design (light emission) | Rectangular                           |
| Sensing range max.              | 0.1 m ... 14 m <sup>1)</sup>          |
| Sensing range                   | 0.1 m ... 10 m <sup>1)</sup>          |
| Type of light                   | Visible red light                     |
| Light source                    | LED                                   |
| Adjustment                      | Potentiometer                         |

<sup>1)</sup> Reflector PL80A.

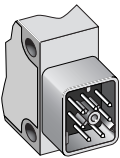
MECHANICS/ELECTRONICS

|                               |                              |
|-------------------------------|------------------------------|
| Supply voltage                | 10 V DC ... 30 V DC          |
| Current consumption           | 25 mA <sup>1)</sup>          |
| Switching output              | PNP                          |
| Switching mode                | Light/dark switching         |
| Response time                 | ≤ 500 µs <sup>2)</sup>       |
| Connection type               | Q7, 7-pin, DC                |
| Housing material              | Plastic, ABS                 |
| Optics material               | Plastic, PMMA                |
| Enclosure rating              | IP65                         |
| Ambient operating temperature | -40 °C ... +60 °C            |
| Ambient temperature, storage  | -40 °C ... +75 °C            |
| UL File No.                   | NRKH.E181493 & NRKH7.E181493 |

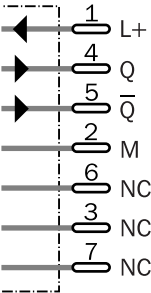
<sup>1)</sup> Without load.

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

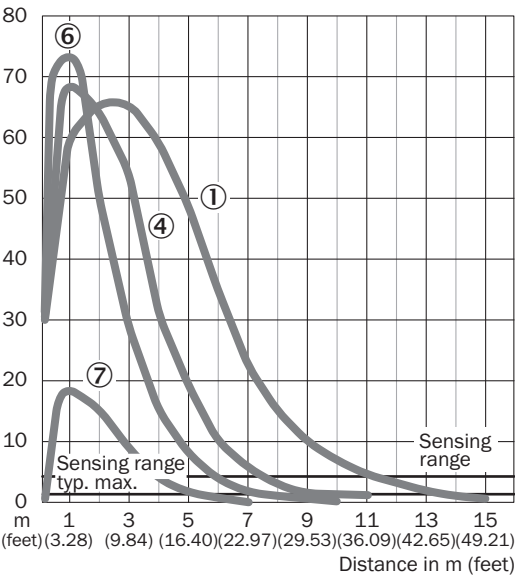
CONNECTION TYPE



CONNECTION DIAGRAM



CHARACTERISTIC CURVE



## DATA SHEET | SICK



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at [www.sick.com/1015104](http://www.sick.com/1015104)



SICK AG  
WALDKIRCH  
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SICK.COM

# SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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