



## Photoelectric sensors W130 Laser, Photoelectric retro-reflective sensor

WL130L-32



**Model Name** > [WL130L-32](#)  
**Part No.** > [6029862](#)



*Illustration may differ*

**At a glance**

- Laser sensor in compact housing
- Red light laser class 2
- Coaxial light path
- Configuration via evaluation unit
- Laser line light beam possible through attachment lens

**Your benefits**

- Versatile configuration options for individual application solutions
- Quick and easy alignment due to red light laser class 2
- Precise detection capabilities due to small laser light spot and autocollimation optics
- Compact housing enables simple machine integration



**Features**

Sensor/detection principle:	Photoelectric retro-reflective sensor
Dimensions (W x H x D):	13.4 mm x 26.5 mm x 34.6 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 10 m
Sensing range:	0 m ... 7 m
Type of light:	Visible red light
Light source:	Laser <sup>1)</sup>
Light spot (distance):	2 mm (2 m)
Laser class:	2 (IEC 60 825-1/C.D.R.H.)
XXX:	26 mm x 0.5 mm (200 mm)

<sup>1)</sup> Average service life 50,000 h at Ta = +25 °C

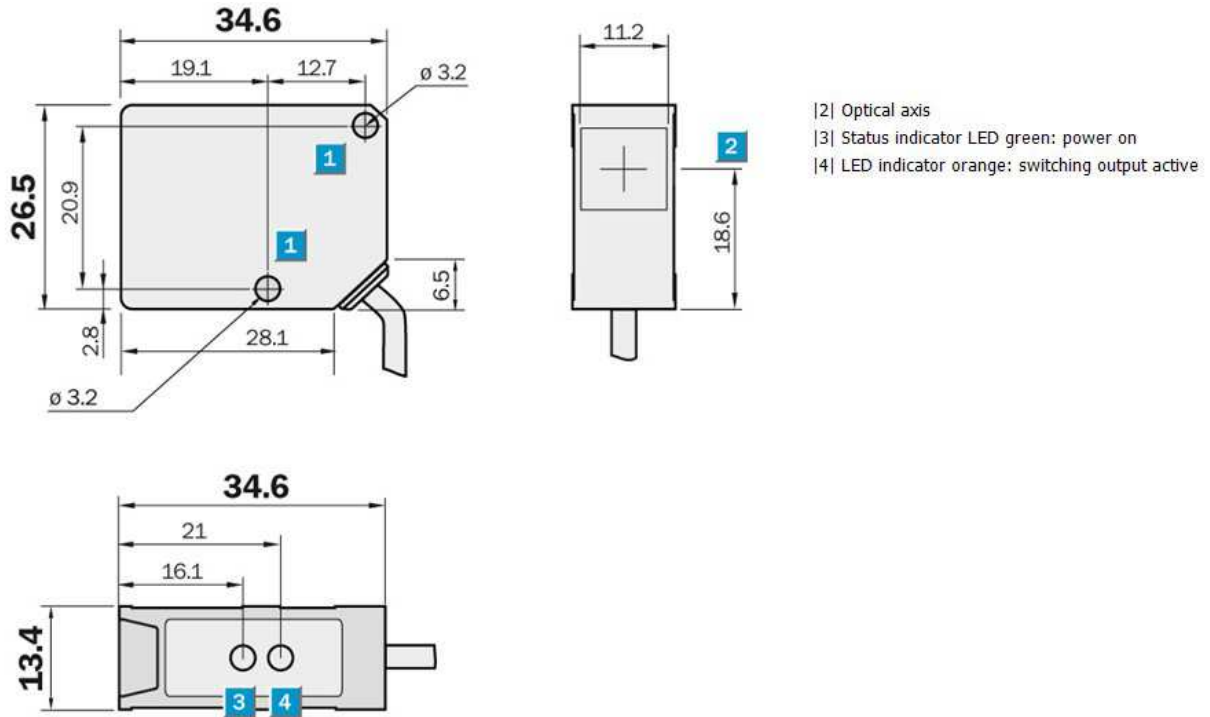
**Mechanics/electronics**

Electrical connection::	Cable with connector, 2 m <sup>1) 2)</sup>
Cable material:	PVC/PBT
Protection class:	III
Polarisation filter:	✓
Housing material:	PC
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	P41F reflector

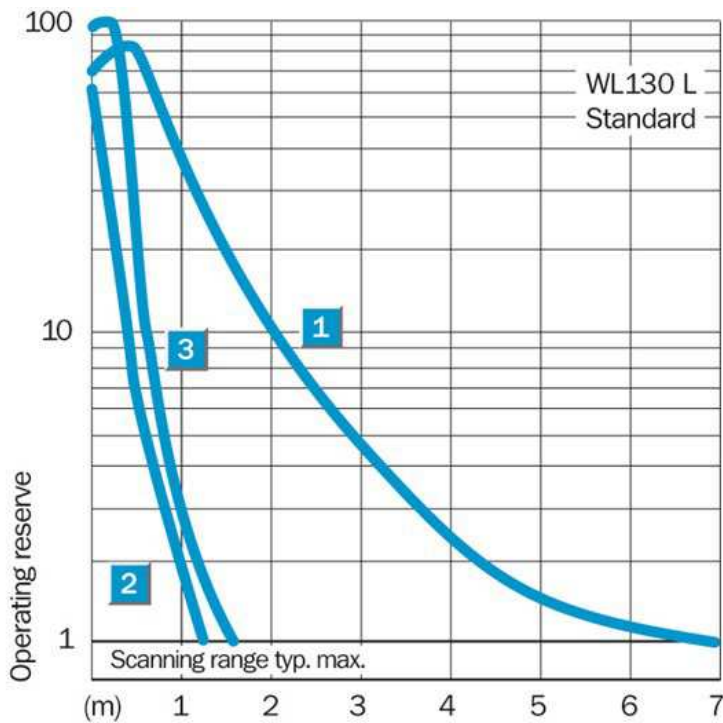
Ambient temperature operation: -10 °C ... 55 °C  
 Ambient storage temperature: -25 °C ... 70 °C  
 UL File-No.: 242361 (0720256-00)

1) Connection between sensor head and evaluation unit with system-specific plug 2) Do not bend below 0 °C

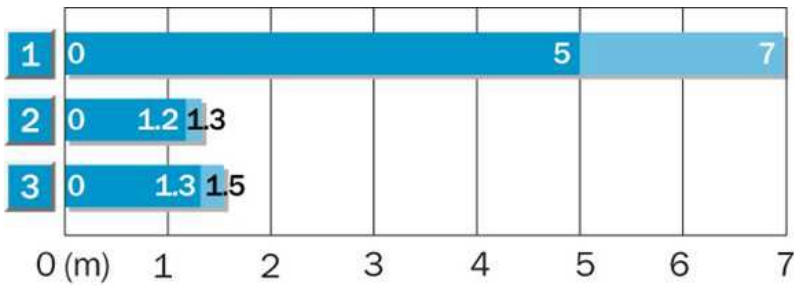
**Dimensional drawing**



### Characteristic curve



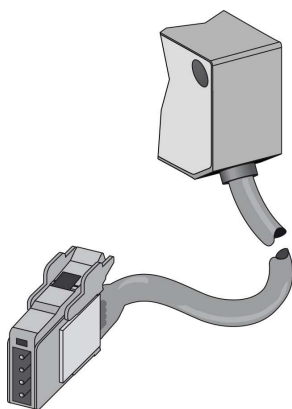
### Sensing range diagram



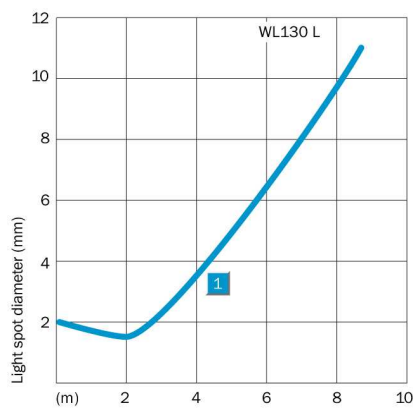
■ Operating range     
 ■ Scanning range typ. max.

Reflector type	Operating range
1 P41F (without tip adapter lens)	0 ... 5 m
2 P41F (with area tip adapter lens)	0 ... 1.2 m
3 P41F (with line tip adapter lens)	0 ... 1.5 m

## Connection type



## Light spot size



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