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Product data sheet



WL130L-32

W130

MINIATURE PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

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WL130L-32 | W130

MINIATURE PHOTOELECTRIC SENSORS



Illustration may differ

Ordering information

Type	Part no.
WL130L-32	6029862

Included in delivery: P41F (1)

Other models and accessories ➜ www.sick.com/W130

Detailed technical data

Features

Functional 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 [1]
Light spot size (distance)	Ø 2 mm (2 m)
Laser class	2, IEC 60 825-1/C.D.R.H.
XXX	26 mm x 0.5 mm (200 mm)
Adjustment	None

[1] Average service life: 50,000 h at T_U = +25 °C.

Mechanics/electronics

Connection type	Cable with male connector, 2 m [1] [2]
Cable material	PVC/PBT
Protection class	III
Weight	35 g
Polarisation filter	✓
Housing material	Plastic, PC
Optics material	Plastic, PMMA
Enclosure rating	IP67
Items supplied	P41F reflector
Ambient operating temperature	–10 °C ... +55 °C

[1] Connection between sensor head and evaluation unit with system-specific connector.

[2] Do not bend below 0 °C.

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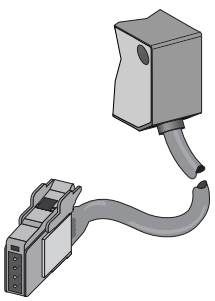
Ambient temperature, storage	–25 °C ... +70 °C
UL File No.	242361 (0720256-00)

[1] Connection between sensor head and evaluation unit with system-specific connector.
[2] Do not bend below 0 °C.

Classifications

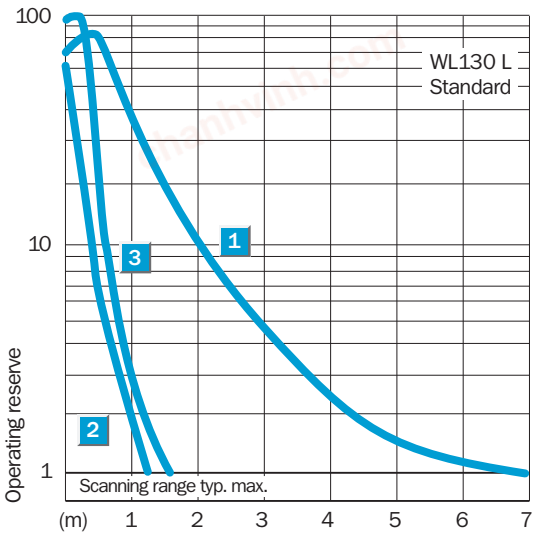
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UNSPSC 16.0901	39121528

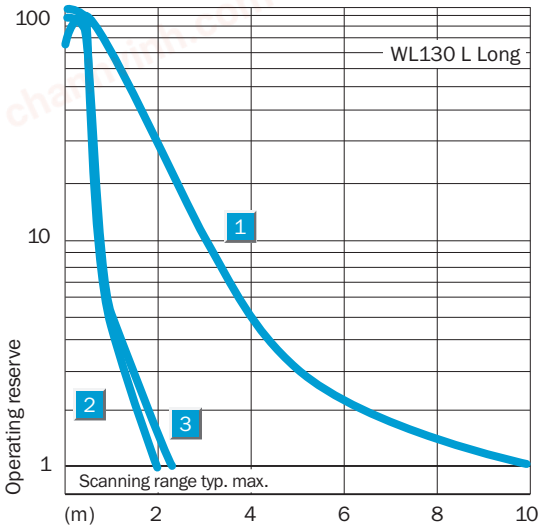
Connection type

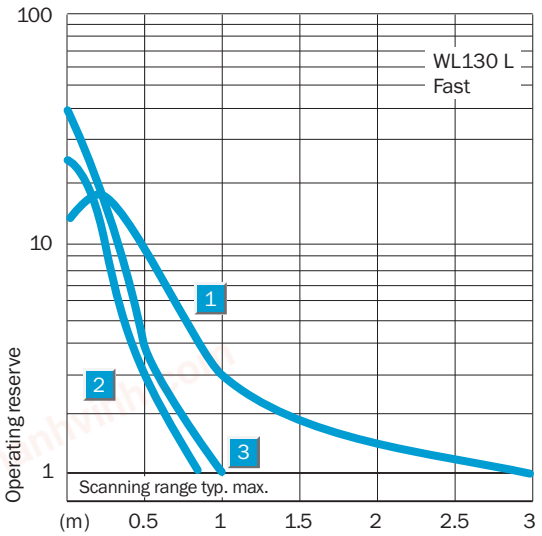


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Characteristic curve

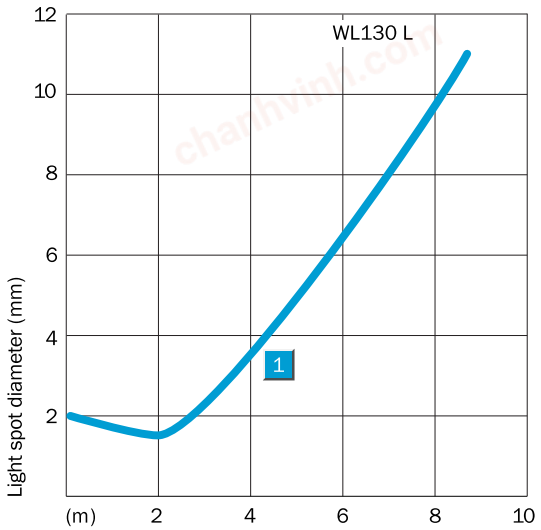




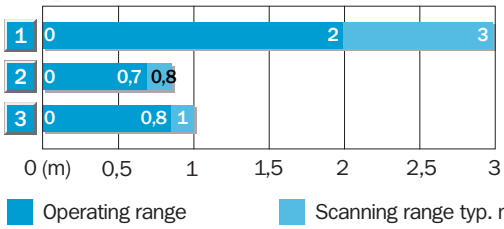


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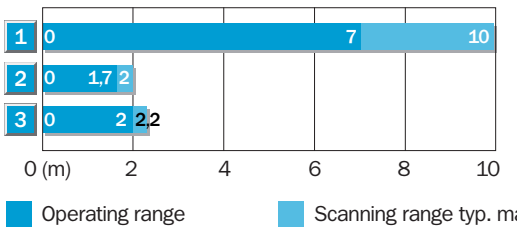
Light spot size



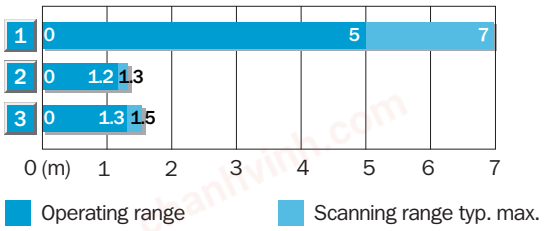
Sensing range diagram



	Reflector type	Operating range
1	P41F (without tip adapter lens)	0 ... 2 m
2	P41F (with area tip adapter lens)	0 ... 0.7 m
3	P41F (with line tip adapter lens)	0 ... 0,8 m

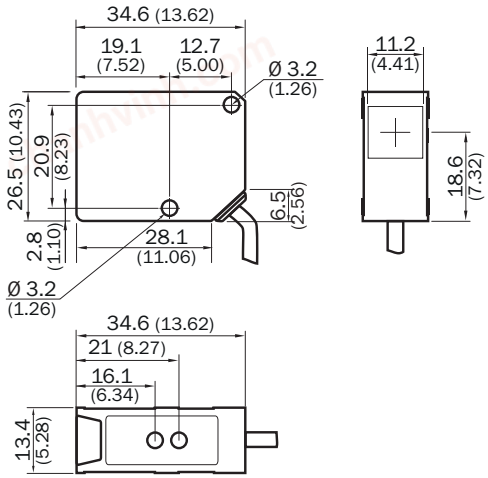


	Reflector type	Operating range
1	P41F (without tip adapter lens)	0 ... 7 m
2	P41F (with area tip adapter lens)	0 ... 1.7 m
3	P41F (with line tip adapter lens)	0 ... 2 m



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

Dimensional drawing (Dimensions in mm (inch))



① Mounting hole Ø 3.2 mm
② Optical axis
③ LED indicator green: Supply voltage active
④ LED indicator orange: switching output active

Recommended accessories

Other models and accessories ➜ www.sick.com/W130

	Brief description	Type	Part no.
Mounting brackets and plates			
	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812

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	Brief description	Type	Part no.
	Fine triple reflector, screw connection, suitable for laser sensors, 52 mm x 62 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250F	5308843

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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."

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