



DATA SHEET

WT130L-32

W130
Photoelectric sensors



Illustration may differ

PHOTOELECTRIC SENSORS

WT130L-32

ORDERING INFORMATION

Type	part no.
WT130L-32	6029861

Further device versions and accessories at www.sick.com/WT130



DETAILED TECHNICAL DATA

FEATURES

Functional principle	Photoelectric proximity sensor
Functional principle detail	Energetic
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 mm ... 1,200 mm
Sensing range	30 mm ... 1,000 mm ¹⁾
Type of light	Visible red light
Light source	Laser ²⁾
Light spot size (distance)	Ø 1 mm (1 m)
Laser class	2, IEC 60 825-1/C.D.R.H.
Adjustment	None

¹⁾ Object with 90% remission (based on standard white DIN 5033). Sensing range depends on operating mode selected.

²⁾ 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
Housing material	Plastic, PC
Optics material	Glass, glass
Enclosure rating	IP67
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.

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

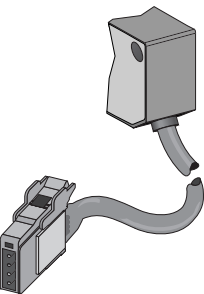
¹⁾ Connection between sensor head and evaluation unit with system-specific connector.

²⁾ Do not bend below 0 °C.

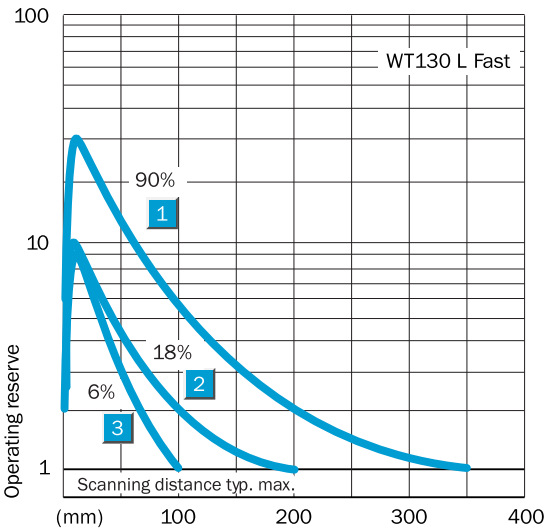
CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) ex-empt	✓
cRUus certificate	✓
Laser safety (IEC 60825-1) certificate	✓
Optical radiation safety (GB 44703:2024) declaration of manufacturer (low risk)	✓

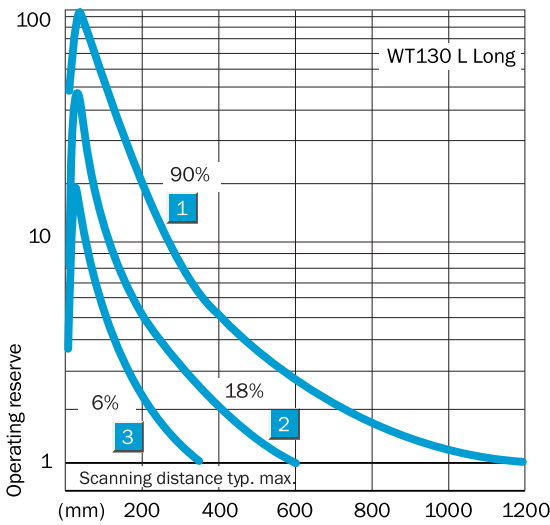
CONNECTION TYPE



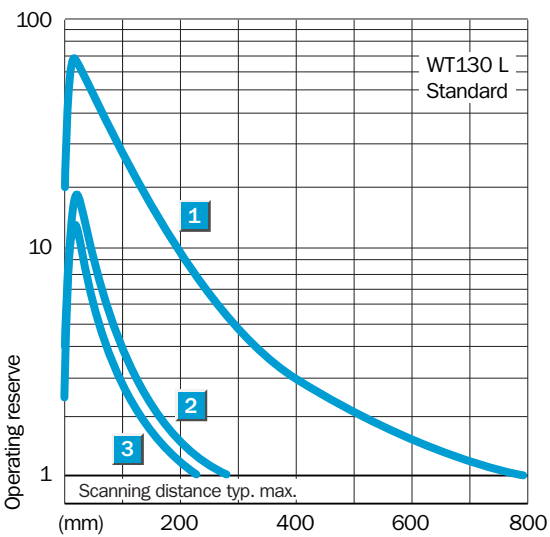
CHARACTERISTIC CURVE



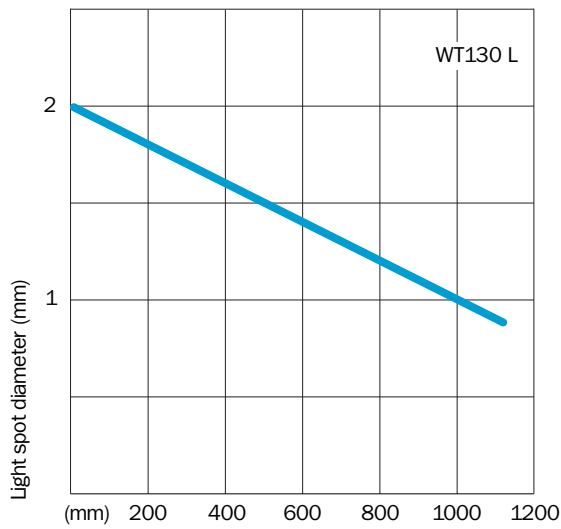
CHARACTERISTIC CURVE



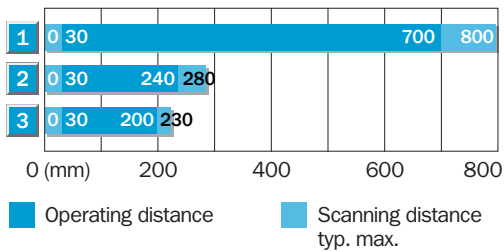
CHARACTERISTIC CURVE



LIGHT SPOT SIZE

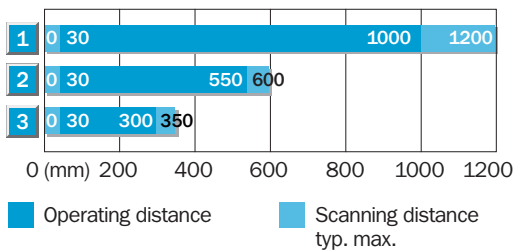


SENSING RANGE DIAGRAM



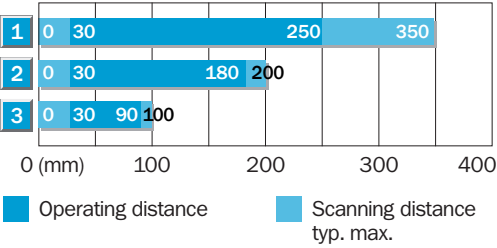
1	Scanning distance on white, 90 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on black, 6 % remission

SENSING RANGE DIAGRAM



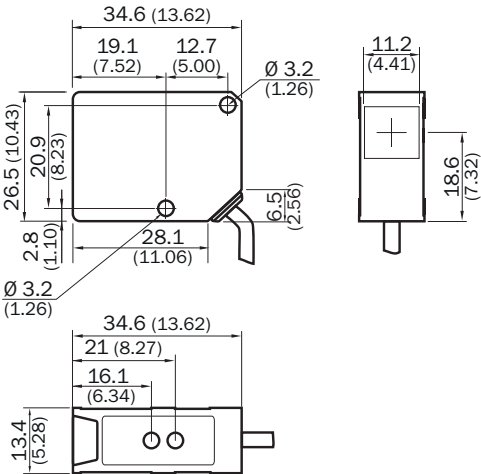
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SENSING RANGE DIAGRAM



1	Scanning distance on white, 90 % remission
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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

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/6029861

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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

SICK
Sensor Intelligence