



Photoelectric sensors W4-3 PTFE, Through-beam photoelectric sensor

WSE4T-3F1430



Model Name > WSE4T-3F1430
Part No. > 1029647



Illustration may differ

At a glance

- Sensor and cable enclosed in a protective Teflon-coated housing
- Suitable for use in the food and beverage industry
- Through-beam photoelectric sensor with a sensing range of 0 - 3 m
- Highly visible PinPoint LED light spot

Your benefits

- High cost savings since neither the sensor nor the cable requires a protective barrier
- Quick and easy alignment due to highly visible PinPoint LED light spot
- Less machine downtime due to a long sensor life that withstands all aggressive cleaning and process agents



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Dimensions (W x H x D):	22 mm x 42 mm x 21.8 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 3 m
Sensing range:	0 m ... 2.5 m
Type of light:	Visible red light
Light source:	PinPoint LED ¹⁾
Wave length:	650 nm
Light spot size (distance):	Ø 210 mm (2 m)

¹⁾ Average service life of 100,000 h at T_A = +25 °C

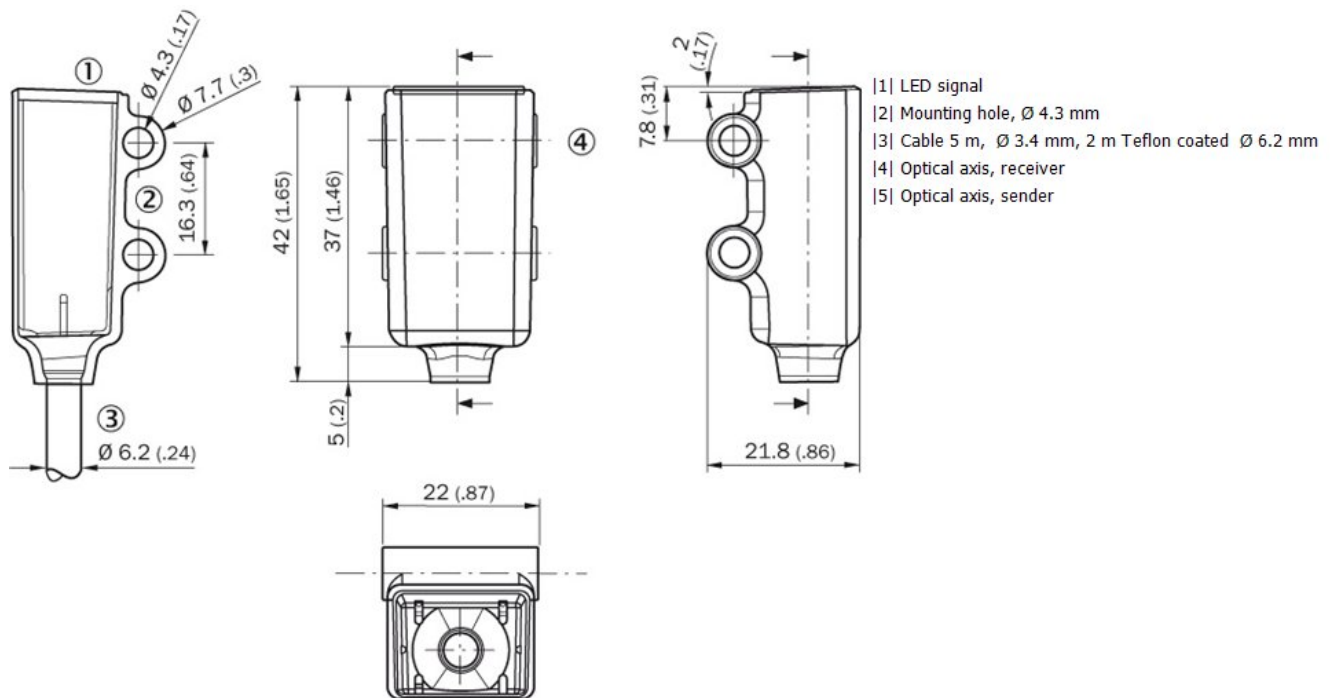
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption::	≤ 20 mA ^{3) 4)}
Output type:	PNP
Switching mode:	Dark-switching
Output current I _{max} ::	≤ 100 mA
Response time:	< 0.5 ms ⁵⁾
Switching frequency:	1,000 Hz ⁶⁾
Connection type:	Cable, 3-wire, 5 m ⁷⁾
Cable material:	PVC/PTFE coating

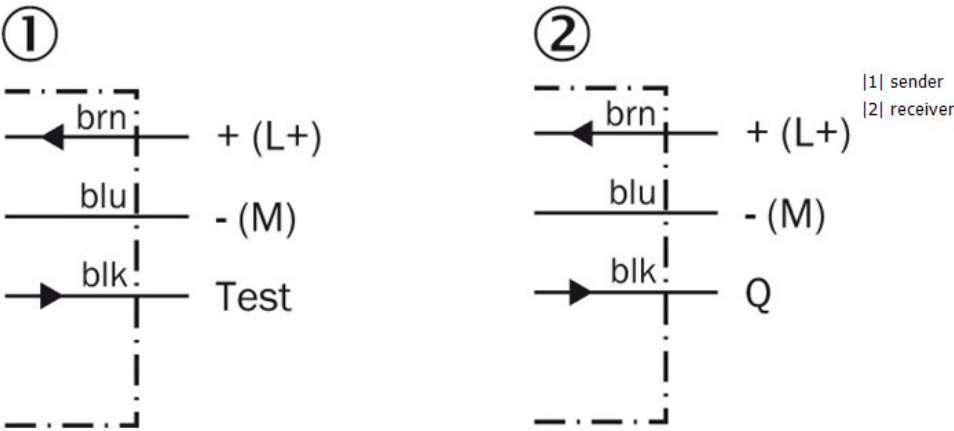
Conductor cross-section:	0.14 mm ²
Cable diameter:	3.4 mm
Circuit protection:::	A, C, D ^{8) 9) 10)}
Protection class:	III
Weight:	30 g
Housing material:	PTFE
Optics material:	PMMA
Enclosure rating:	IP 68 IP 69K
Test input sender off:	TE to 0 V
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Sender ⁴⁾ Receiver ⁵⁾ Signal transit time with resistive load ⁶⁾ With light/dark ratio 1:1 ⁷⁾ Do not bend below 0 °C ⁸⁾ A = V_S connections reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ D = outputs overcurrent and short-circuit protected

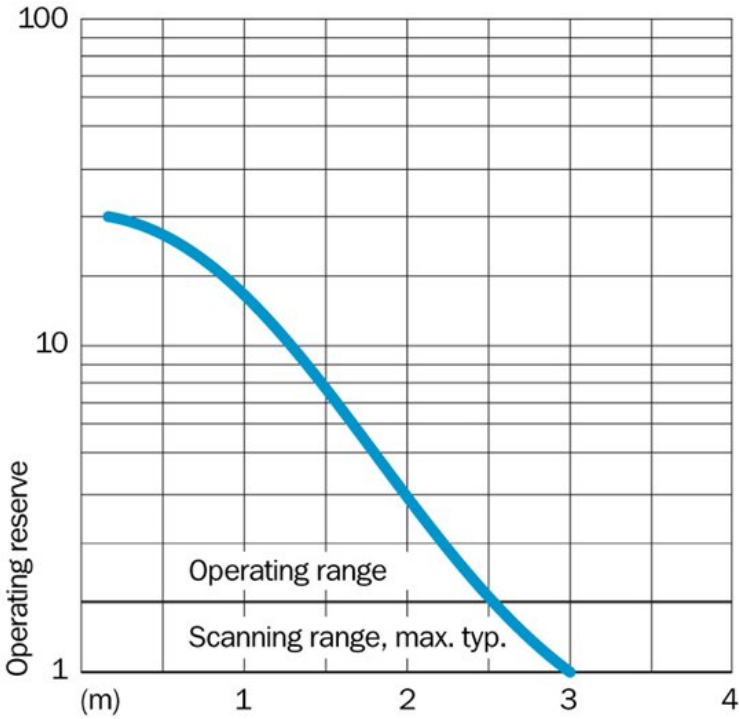
Dimensional drawing



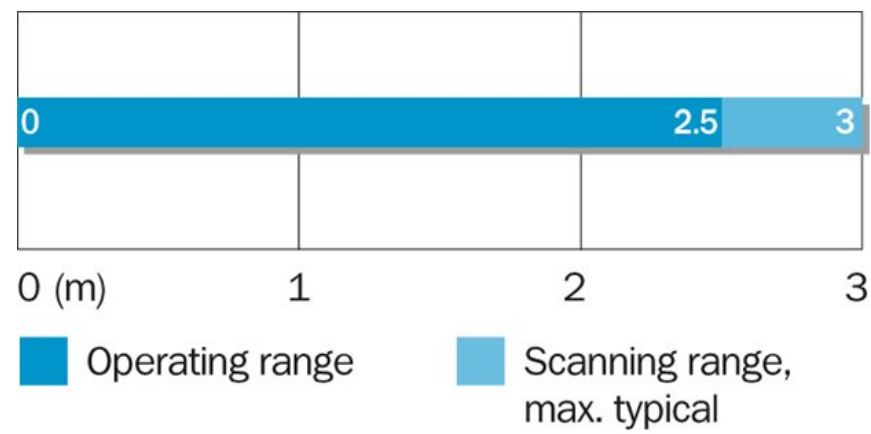
Connection diagram



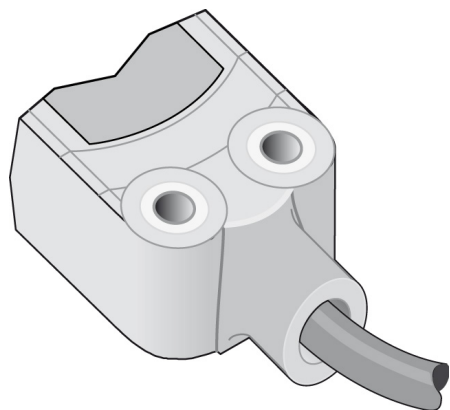
Characteristic curve



Sensing range diagram



Connection type



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