



Photoelectric sensors W4S-3, Through-beam photoelectric sensor

WSE4S-3F2130



Model Name > [WSE4S-3F2130](#)
Part No. > [1042088](#)



Illustration may differ

At a glance

- Sensing range from 0 - 5 m
- PinPoint LED technology for highly visible, brilliant light spot
- Rugged plastic housing with M3 metal inserts

Your benefits

- The PinPoint LED's sharply defined, intense light spot makes alignment quick and easy
- Low-cost machine integration due to small dimensions that enable mounting in areas with space restrictions
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life

Note: This part is discontinued. Please see the replacement product under "Replacement Products" link. "



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Dimensions (W x H x D):	12.2 mm x 41.8 mm x 17.3 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 5 m
Sensing range:	0 m ... 4.5 m
Type of light:	Visible red light
Light source:	PinPoint LED ¹⁾
Wave length:	650 nm
Light spot size (distance):	Ø 50 mm (2 m)

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

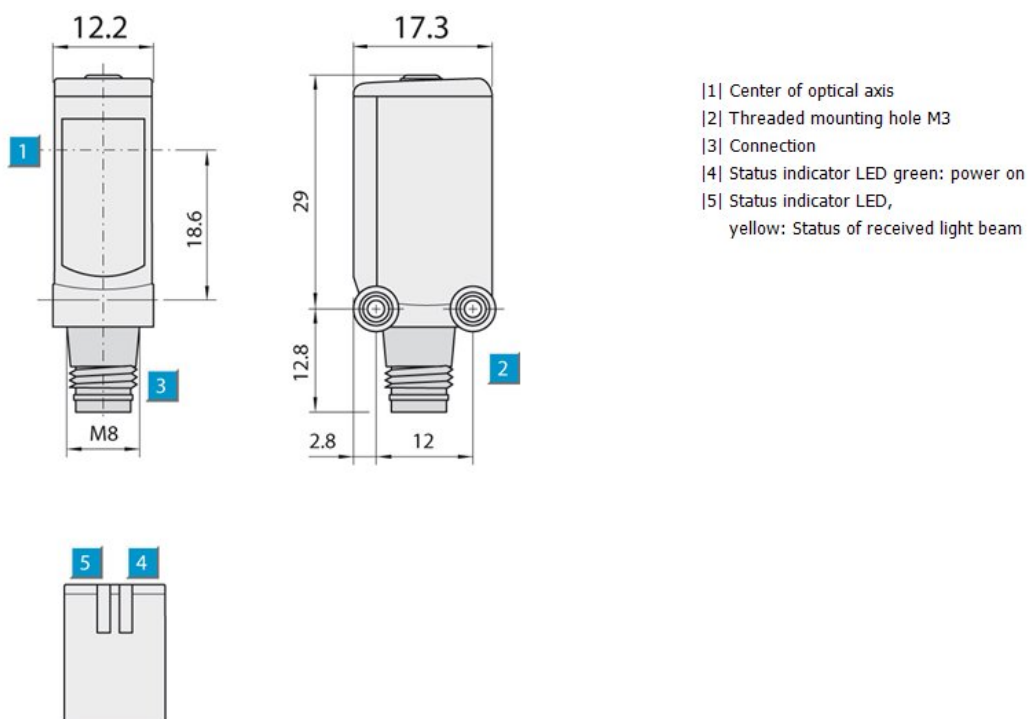
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:::	≤ 20 mA, 20 ³⁾ 4) 5)
Output type:	PNP
Switching mode:	Dark-switching
Output current I _{max} :::	≤ 100 mA

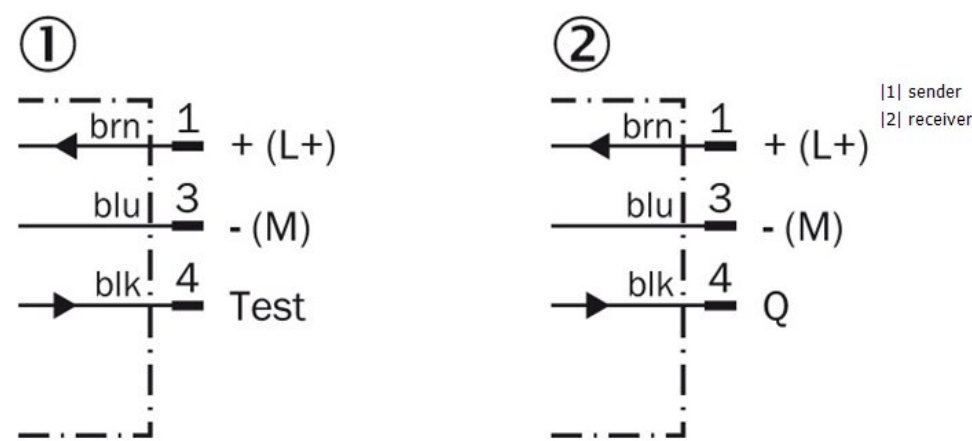
Response time:	< 2.5 ms ⁶⁾
Switching frequency:	1,000 Hz ⁷⁾
Connection type:	Connector M8, 3-pin
Circuit protection:::	A, C, D ^{8) 9) 10)}
Protection class:	III
Weight:	40 g
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67 IP 66
Test input sender off:	TE to 0 V
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
Part number of individual components:	Receiver, WE4S-3F2130, 2044752, Sender, WS4S-3D2130, 2043611
UL File No.:	NRKH.E181493 & NRKH7.E181493

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

Dimensional drawing



Connection diagram



②

brn

1

+

(L+)

blu

3

-

(M)

blk

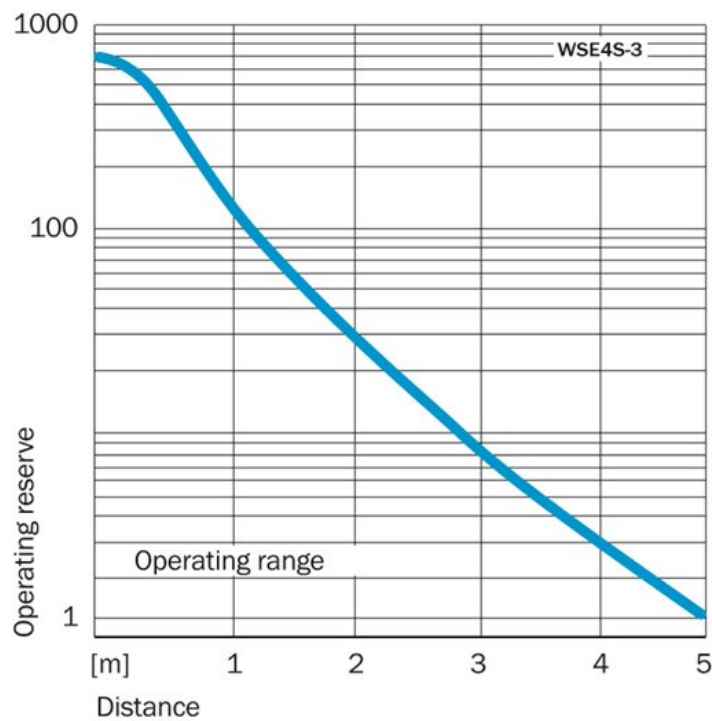
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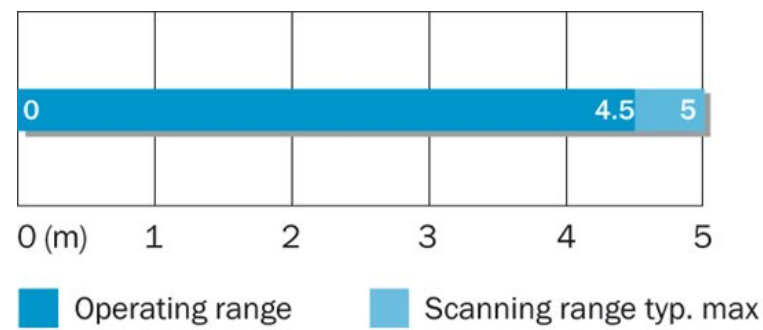
|1| sender

|2| receiver

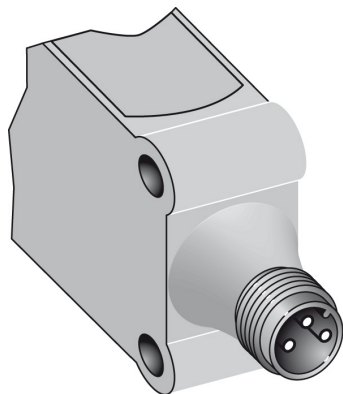
Characteristic curve



Sensing range diagram



Connection type



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