



Photoelectric sensors W4S-3, Through-beam photoelectric sensor

WSE4SC-3F2230A70



Model Name > [WSE4SC-3F2230A70](#)
Part No. > [1060206](#)



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
- Flexible sensor settings, monitoring, extended diagnostics, and visualization thanks to IO-Link
- Programmable functions as debouncing and time-measurement are included

Your benefits

- The PinPoint LED's sharply defined, intense light spot makes alignment quick and easy
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life
- IO-Link provides easy data access from the PLC
- Quick and easy configuration
- Quick and easy integration using function blocks
- Easy device replacement and identification



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)
IO-Link functions:	Advanced functions, Standard functions
IO-Link advanced functions:	Decentralized debouncing, Time measurement/timer

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

Mechanics/electronics

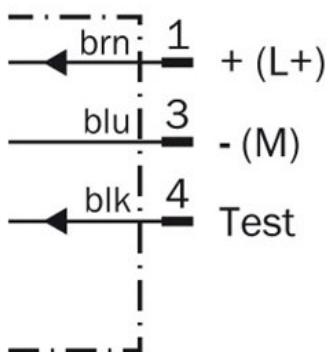
Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp

Power consumption:::	$\leq 20 \text{ mA}$ ^{2) 3) 4)}
Output type:	PNP
Output function:	Complementary
Switching mode:	Light/dark-switching
Output current I _{max} ::	$\leq 100 \text{ mA}$
Response time:	$< 0.5 \text{ ms}$ ⁵⁾
Switching frequency:	$\pm 1,000 \text{ Hz}$ ⁶⁾
Connection type:	Sender M8, 3-pin Receiver M8, 4-pin
Circuit protection:::	A, C, D ^{7) 8) 9)}
Protection class:	III
Weight:	40 g
IO-Link:	✓
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67 IP 66
Test input sender off:	TE to 0 V
Description:	IO-Link, COM2, 2.3 ms, SIO Mode
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C

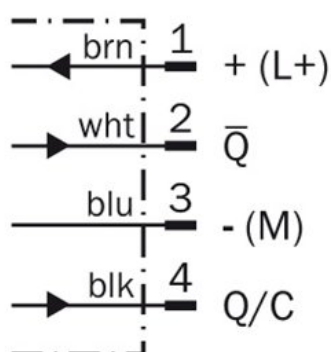
¹⁾ Limit values ²⁾ Sender ^{3) 4)} Receiver ⁵⁾ Signal transit time with resistive load ⁶⁾ With light/dark ratio 1:1 ⁷⁾ $A = V_S$ connections reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit protected

Connection diagram

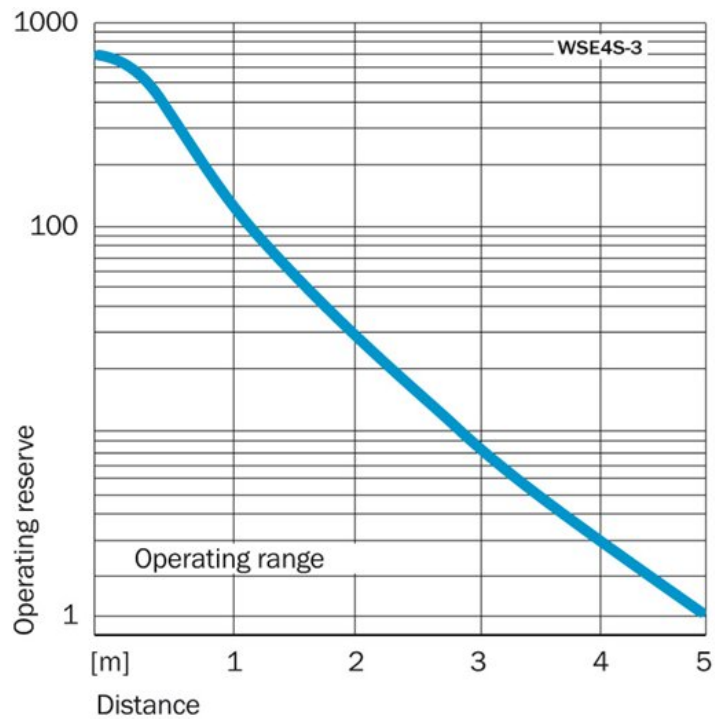
①



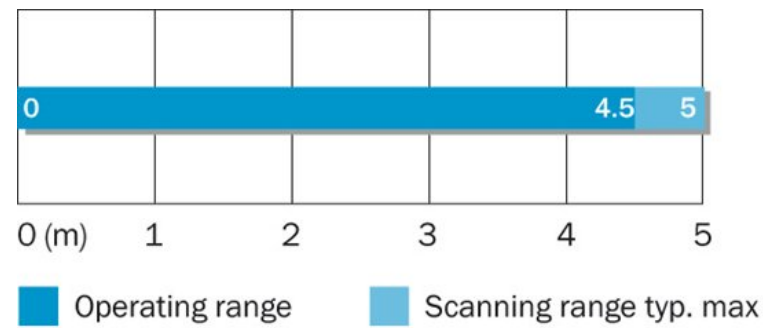
②



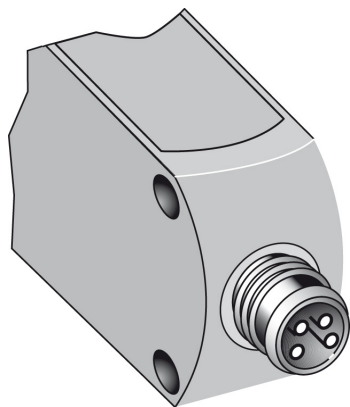
Characteristic curve



Sensing range diagram



Connection type



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