Photoelectric sensors W8 Inox, Through-beam photoelectric sensor

WSE8-P2131V







 Model Name
 > WSE8-P2131V

 Part No.
 > 6041490



Illustration may differ

At a glance

- Rugged IP 69K stainless steel housing 1.4404/316L
- Front screen made of high-performance plastic PPSU that is resistant to heat and chemicals
- Potentiometer is made of mechanically stable high-performance PEEK plastic
- Constructed from FDA-approved materials
- · Well-defined, highly visible light spot
- M3 threaded mounting holes and stainless steel mounting bracket (1.4301/304) included with delivery

Your benefits

- High reliability due to an IP 69K stainless steel housing, which withstands aggressive cleaning agents or cooling lubricants
- Quick and easy mounting due to universally compatible M3 threaded mounting holes
- Compact housing saves space (equal to W8 plastic version)
- · Highly visible light spot provides easy alignment
- · All necessary accessories are included, which simplifies installation



Features

Sensor/detection principle:
Dimensions (W x H x D):
Housing design (light emission):
Sensing range max.:
Sensing range:
Type of light:
Light source:
Wave length:
Adjustment of operating distance:
Angle of dispersion:
Light spot size (distance):
`

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

Mechanics/electronics

Supply voltage:		
Residual ripple:		
Power consumption, sender:		

11 mm x 21 mm x 33.3 mm Rectangular 0 m ... 45 m 0 m ... 20 m Visible red light LED $^{1)}$ 645 nm Potentiometer, 270° Ca. 2.5 ° Ø 900 mm (20 m)

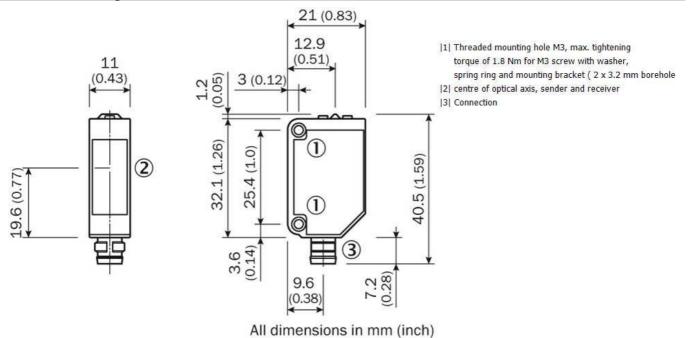
Through-beam photoelectric sensor

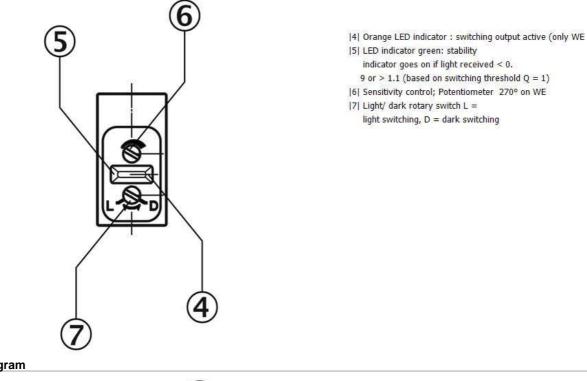
10 V DC ... 30 V DC ¹⁾ ± 10 % ²⁾ ≤ 15 mA ³⁾

Power consumption, receiver:	≤ 20 mA ⁴⁾
Output type:	PNP
Switching mode:	Light/dark switching
Switching mode selector:	Selectable via light/dark selector
Signal voltage PNP HIGH / LOW:	Approx. VS - 1.8 V/0 V
Output current Imax.:	100 mA
Response time:	≤ 0.5 ms ⁵⁾
Switching frequency:	1,000 Hz ⁶⁾
Angle of reception:	Ca. 15 °
Electrical connection:	Connector M8, 3-pin
Circuit protection:::	$A, B, D^{(7)(8)(9)}$
Protection class:	III
Weight:	83.6 g
Housing material:	Stainless steel, Stainless steel V4A (1.4404, 316L)
Enclosure rating:	IP 69K
Items supplied:	Stainless steel mounting bracket (1.4301/304) BEF-W100-A
Ambient temperature operation:	-30 °C 60 °C ¹⁰⁾
Ambient storage temperature:	-40 °C 70 °C
UL File-No.:	FDA
1) Limit values, reverse polarity protected operation in shor	t-circuit protected network may 8.4 $^{(2)}$ May not exceed or fall short of V tolerances $^{(3)}$ (4) Receiver without

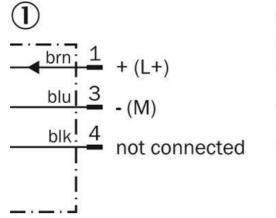
¹⁾ Limit values, reverse-polarity protected operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ^{3) 4)} Receiver without load ⁵⁾ Signal transit time with resistive load ⁶⁾ With light/dark ratio 1:1 ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and output reverse-polarity protected ⁹⁾ D = outputs overcurrent and short-circuit protected ¹⁰⁾ At an air humidity of 35 ... 95 %

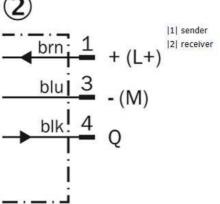
Dimensional drawing



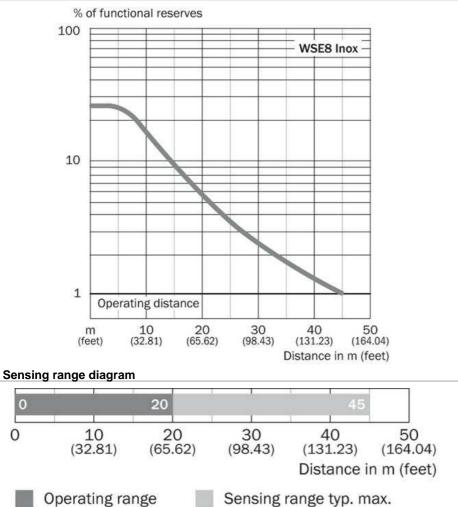


Connection diagram



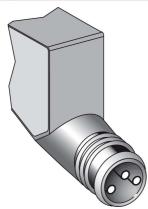


Characteristic curve



Sensing range typ. max.

Connection type



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