

WSE8-N1131V







Photoelectric sensors W8 Inox, Through-beam photoelectric sensor

Model Name > WSE8-N1131V Part No. > 6041485





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

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Features

Sensor/detection principle: Through-beam photoelectric sensor

Dimensions (W x H x D): 11 mm x 21 mm x 33.3 mm

Housing design (light emission):

Sensing range max.:

O m ... 45 m

Sensing range:

O m ... 20 m

Type of light:

Light source:

LED 1)

Light source: LED 1)
Wave length: 645 nm
Angle of dispersion: Ca. 2.5 °

Adjustment: Potentiometer, 270 ° Light spot size (distance): Ø 900 mm (20 m)

Mechanics/electronics

Supply voltage: 10 V DC ... 30 V DC 1)

Residual ripple: $\pm 10 \%^2$.

Power consumption, sender: $\leq 15 \text{ mA}^3$

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

Power consumption, receiver: ≤ 20 mA ⁴⁾
Output type: NPN

Switching mode: Light/dark switching

Switching mode selector: Selectable via light/dark selector

Signal voltage NPN HIGH/LOW: Approx. VS/< 1.8 V

Output current Imax.: 100 mA Response time: \leq 0.5 ms $^{5)}$ Switching frequency: 1,000 Hz $^{6)}$ Angle of reception: Ca. 15 $^{\circ}$

Electrical connection: Cable, 3-wire, 2 m ⁷⁾

Cable material: PVC Conductor cross-section: 0.18 mm^2 Circuit protection::: A, B, D $^{8) \text{ 9) 10)}$

Protection class: III
Weight: 83.6 g

Housing material: Stainless steel, Stainless steel V4A (1.4404, 316L)

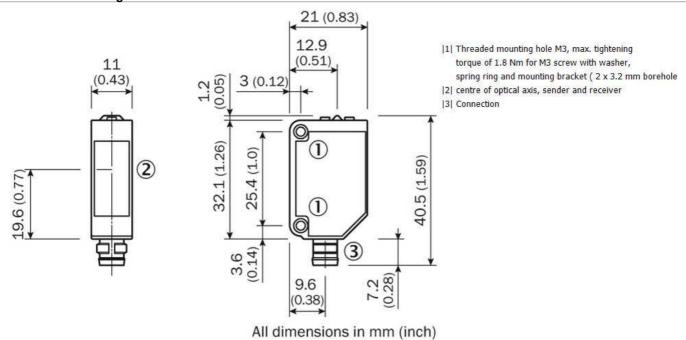
Enclosure rating: IP 69K

Items supplied: Stainless steel mounting bracket (1.4301/304) BEF-W100-A

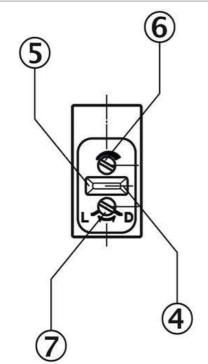
Ambient temperature operation: $-30 \, ^{\circ}\text{C} \dots 60 \, ^{\circ}\text{C}$ Multiplication in the contraction in the co

UL File No.: FDA

¹⁾ Limit values, reverse-polarity protected operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V tolerances 3) 4) Receiver without load 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) Do not bend below 0 °C 8) A = V connections reverse-polarity protected 9) B = inputs and output reverse-polarity protected 11) At an air humidity of 35 ... 95 %

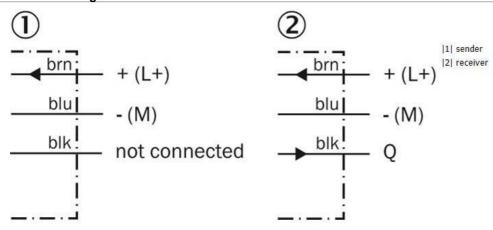


Adjustments possible

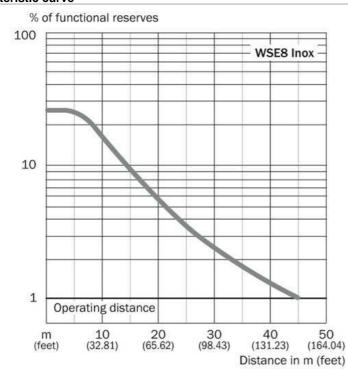


- |4| Orange LED indicator : switching output active (only WE
- |5| LED indicator green: stability indicator goes on if light received < 0.
 9 or > 1.1 (based on switching threshold Q = 1)
- |6| Sensitivity control; Potentiometer 270° on WE
- |7| Light/ dark rotary switch L =light switching, D =dark switching

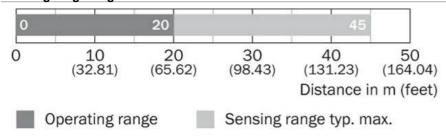
Connection diagram



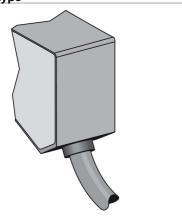
Characteristic curve



Sensing range diagram



Connection type



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