

WSE8-N2131V







Photoelectric sensors W8 Inox, Through-beam photoelectric sensor

Model Name > WSE8-N2131V Part No. > 6041486





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: 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:

Visible red light

Light source: LED 1)
Wave length: 645 nm

Adjustment of operating distance: Potentiometer, 270°

Angle of dispersion: Ca. 2.5°

Light spot size (distance): Ø 900 mm (20 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: $\pm 10 \%^2$.

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

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

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 ≤ 0.5 ms ⁵⁾ Response time: 1,000 Hz ⁶⁾ Switching frequency: Ca. 15 ° Angle of reception:

Connector M8, 3-pin A, B, D 7) 8) 9) Connection type:

Circuit protection:::

Ш Protection class: Weight: 83.6 g

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

Enclosure rating:

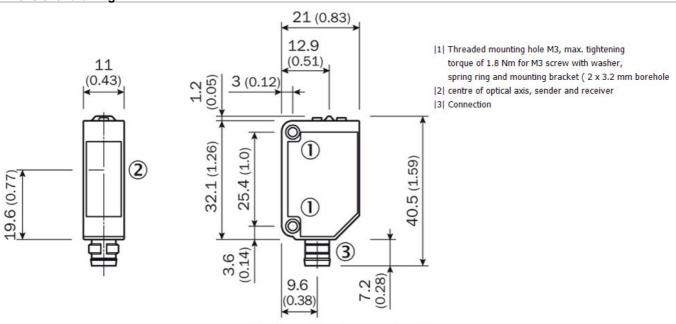
Items supplied: Stainless steel mounting bracket (1.4301/304) BEF-W100-A

-30 °C ... 60 °C ¹⁰⁾ Ambient operating temperature: -40 °C ... 70 °C Ambient storage temperature: **FDA** UL File-No.:

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) A = V connections reverse-polarity protected 8) B = inputs and output reverse-polarity

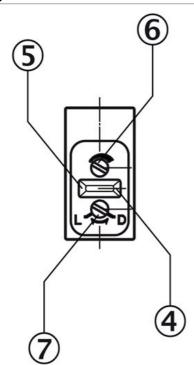
protected $^{9)}$ D = outputs overcurrent and short-circuit protected $^{10)}$ At an air humidity of 35 ... 95 %

Dimensional drawing



All dimensions in mm (inch)

Adjustments possible



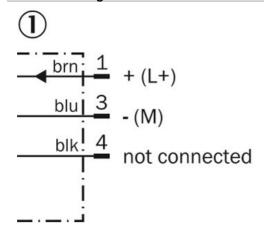
- |4| Orange LED indicator : switching output active (only WE
- |5| LED indicator green: stability indicator goes on if light received < 0.</p>

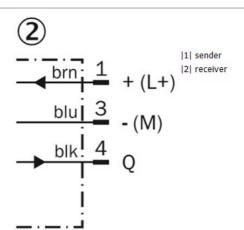
9 or > 1.1 (based on switching threshold Q = 1)

- |6| Sensitivity control; Potentiometer 270° on WE
- |7| Light/ dark rotary switch L =

light switching, D = dark switching

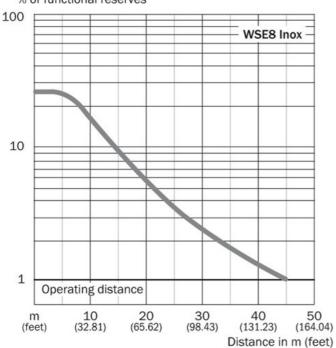
Connection diagram



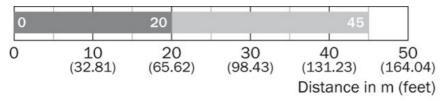


Characteristic curve



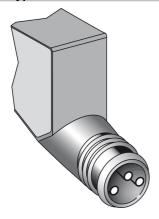


Sensing range diagram



Operating range Sensing range typ. max.

Connection type



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