

WTB8-P2211V







Photoelectric sensors W8 Inox, Photoelectric proximity sensor, Background suppression

Model Name > WTB8-P2211V Part No. > 6041459



At a glance

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

M3 threaded mounting holes and stainless steel mounting bracket (1.4301/304)

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
- Compact housing saves space (equal to W8 plastic version)
- · Highly visible light spot provides easy alignment
- · All necessary accessories are included, which simplifies installation



Illustration may differ



Features

Sensor/detection principle: Photoelectric proximity sensor, Background suppression

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

Housing design (light emission): Rectangular

5 mm ... 150 mm Sensing range max.: 5 mm ... 100 mm ²⁾ Sensing range: Type of light: Visible red light

LED 3) Light source: Wave length: 650 nm

Light spot diameter (distance): Ø 8 mm (100 mm)

1) 2) Object with 90 % reflectance (referred to standard white DIN 5033) 3) Average service life of 100,000 h at T_{Λ} = +25 °C

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾ ± 10 % ²⁾ Supply voltage:

Residual ripple: \leq 30 mA $^{3)}$ Power consumption:

Output type: PNP, Light/dark-switching, selectable via light/dark selector

Signal voltage PNP HIGH/LOW: Approx. VS - 1.8 V/0 V

100 mA Output current Imax.: ≤ 0.5 ms ⁴⁾ Response time: 1,000 Hz ⁵⁾ Switching frequency:

Connector M8, 4-pin A, B, D 6) 7) 8) Electrical connection:

Circuit protection:::

Protection class: Ш 83.6 g Weight:

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

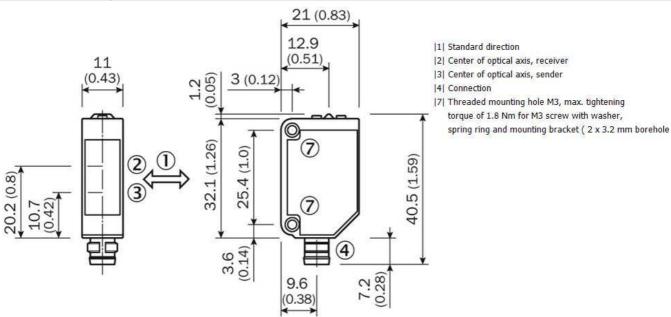
Enclosure rating: **IP 69K**

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

-30 °C ... 60 °C ⁹⁾ Ambient temperature operation: -40 °C ... 70 °C Ambient storage temperature:

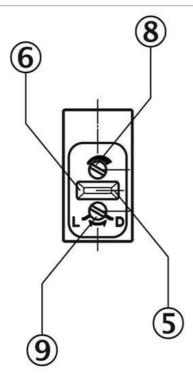
FDA UL File-No.:

Dimensional drawing



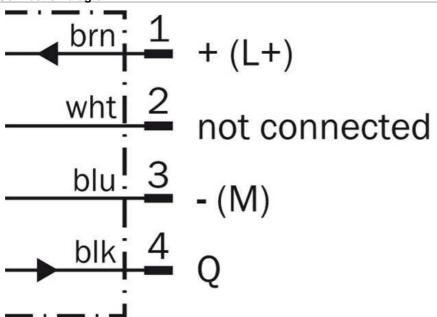
All dimensions in mm (inch)

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) Without load 4) Signal transit time with resistive load 5 With light/dark ratio 1:1 6 A = V connections reverse-polarity protected 7 B = inputs and output reverse-polarity protected 8) D = outputs overcurrent and short-circuit protected 9) At an air humidity of 35 ... 95 %



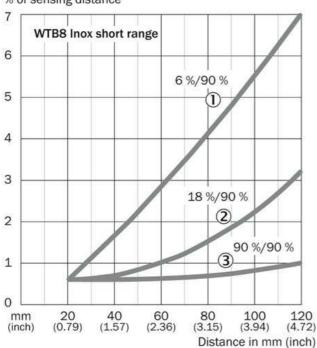
- |5| Orange LED indicator : switching output active
- |6| LED indicator green: stability indicator goes on if light received < 0.
 9 or > 1.1 (based on switching threshold Q = 1)
- |8| Sensing range adjustment
- |9| Light/ dark rotary switch L = light switching, D = dark switching

Connection diagram



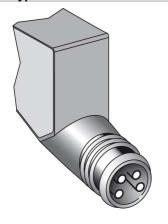
Characteristic curve

% of sensing distance

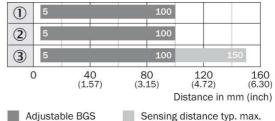


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on grey, 18 % remission
- |3| Sensing range on white, 90 % remission

Connection type



Sensing range diagram



- Sensing distance typ. max.
- ① Sensing distance on black, 6 % remission
- 2 Sensing distance on gray, 18 % remission
- 3 Sensing distance on white, 90 % remission

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