

WSE280-2H4331







Photoelectric sensors W280-2, Through-beam photoelectric sensor

Model Name > WSE280-2H4331

Part No. > 6044747





Illustration may differ

At a glance

- · Highly visible red light spot thanks to the BrightLight LED
- · Large sensing range and high operating reserve
- · Light/dark switching (DC devices only)
- · Rotatable connector, cable connection or terminal chamber
- Versions for 10 30 V DC or 24 240 V DC/AC voltage supply
- · Stainless steel mounting bracket (1.4301) is included in delivery
- AC/DC devices (-2Hxxxx) are compliant with EN 61000-6-3 (electromagnetic interference for "residential, commercial and light-industrial environments")

Your benefits

- · Less contamination due to high operating reserves, reducing downtime
- . DC and AC/DC devices available in the same housing allow electrical flexibility
- Light/dark switching provides application flexibility and reduces the number of devices needed
- All necessary mounting and operating accessories are included in delivery, enabling quick and easy setup: since mounting bracket (stainless steel 1.4301) is included in delivery scope

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Features

Sensor/detection principle: Through-beam photoelectric sensor Dimensions (W x H x D): 23.5 mm x 74.5 mm x 63 mm

Housing design (light emission):

Sensing range max.:

0 m ... 60 m

Sensing range:

0 m ... 50 m

Type of light:

Visible red light

Light source:

BrightLight LED

Adjustment:

Potentiometer

Light spot size (distance):

Ø 0.6 m (20 m)

Mechanics/electronics

Supply voltage:: 24 V AC ... 240 V AC, 24 V DC ... 240 V DC ^{1) 2)}

Power consumption, sender: ≤ 3.5 VAPower consumption, receiver: ≤ 3.5 VAOutput type: ≤ 3.5 VARelay

Output function: Change-over contacts

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

Switching mode: Light switching ⁴⁾
Output characteristic: Electrically isolated

Switching current (switching voltage): 3 A (240 V AC), 3 A (30 V DC)

Response time: ≤ 15 msSwitching frequency: 33 Hz^{5} Connection type: Cable gland Circuit protection:: A, C^{6} Protection class: II^{8} Overvoltage category: 222Weight: 300 g

Interference emission: EN 61000-6-3 (only -2Hxxxx) 9)

Housing material:

Optics material:

Enclosure rating:

ABS, Plastic

PMMA

IP 66
IP 67

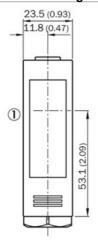
Items supplied: Mounting bracket BEF-W280

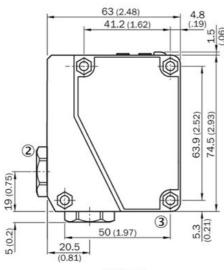
Usage category: AC-15, DC-13, According to EN 60947-1 EMC: EN 60947-5-2

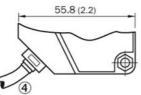
EMC: EN 60947-5-2 Ambient operating temperature: $-25 \,^{\circ}\text{C} \dots 55 \,^{\circ}\text{C}$ Ambient storage temperature: $-40 \,^{\circ}\text{C} \dots 70 \,^{\circ}\text{C}$

1) 2) ±10 % 3) 4) Provide suitable spark supression for inductive or capacitive loads 5) With light/dark ratio 1:1 6) A = V connections reverse-polarity protected 7) C = interference suppression 8) Rated voltage 250 V AC/DC 9) In the case of a DC supply (relating to EN 61000-6-3) the length of cable between the supply source and the sensor must be < 30 m 10) The AC/DC devices meet the interference suppression requirements for industrial use (interference suppression class A). When used in residential areas it can cause interference.

Dimensional drawing

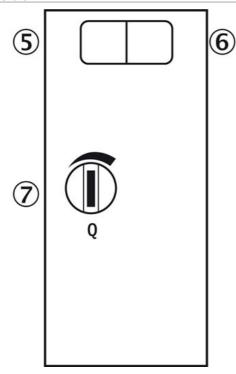






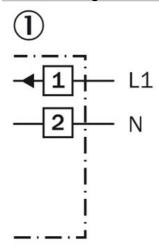
- |1| centre of optical axis, sender and receiver
- |2| Cable entry gland 3/8" for cable diameter 6 to 8 mm
- |3| Mounting hole, Ø 4.3 mm
- |4| Cable, 2 m, 5-wire, Ø 6,3 mm

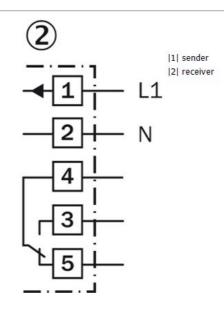
Adjustments possible



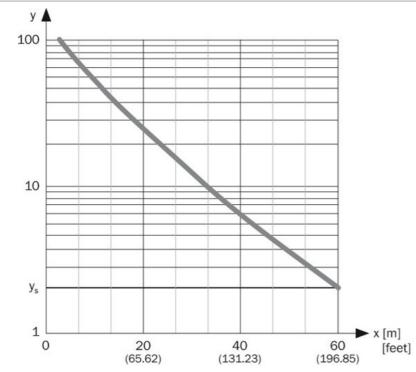
- |5| LED indicator green: Stability indicator
- |6| Status indicator LED, yellow: Status of received light beam (only receiver WE)
- [7] Sensitivity adjustment: Potentiometer (only receiver WE]

Connection diagram

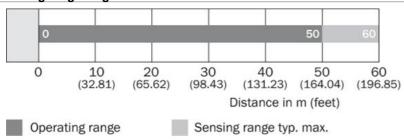




Characteristic curve



Sensing range diagram



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