

WS/WE280-S132







Photoelectric sensors W280, Through-beam photoelectric sensor

Model Name > WS/WE280-S132

Part No. > 6027490



At a glance

- · Visible red light
- · 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 are compliant with EN61000-6-3 (electromagnetic interference for "residential, commercial and light-industrial environments")
- · UL recognized

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

Note: This part is discontinued. Please see the replacement product under "Replacement Products" link. "



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.:

Sensing range:

O m ... 45 m

O m ... 40 m

Type of light:

Light source:

Visible red light

LED

1)

Sensitivity adjustment: Sensitivity adjustment

Angle of dispersion: 1.4 °
Light spot size (distance): 40 m

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



Illustration may differ

Mechanics/electronics

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

Power consumption, sender: \leq 3.5 VA
Power consumption, receiver: \leq 3.5 VA
Output type: Relay 3)

Output function:

Switching mode:

Change-over contacts

Light switching

Output characteristic:

Electrically isolated

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

Response time: \leq 20 ms Switching frequency: $25 \text{ Hz}^{5)}$ Angle of reception: 6°

Connection type: Cable, 5-wire, 2 m⁶⁾

Conductor cross-section:

Circuit protection::

Protection class:

Weight:

Housing material:

Optics material:

Enclosure rating:

0.76 mm²

A, C
7) 8)

19

ABS, Plastic

PMMA

IP 66

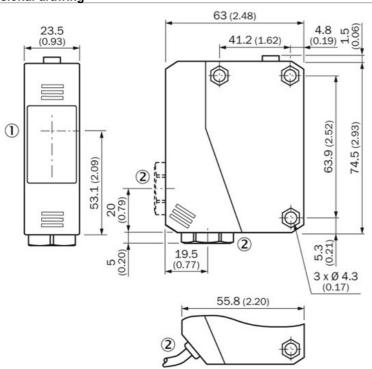
Items supplied: Mounting bracket BEF-W280

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

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

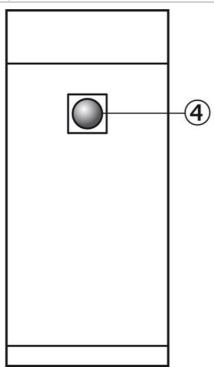
1) 2) ±10 % Provide suitable spark supression for inductive or capacitive loads 5) With light/dark ratio 1:1 6) Do not bend below 0 °C 7) A = V connections reverse-polarity protected 8) C = interference suppression 9) Rated voltage 250 V AC/DC

Dimensional drawing



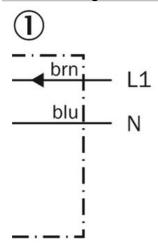
- |1| Optical axis, sender and receiver
- |2| Cable entry gland 1/2" PF for cable diameter 6 to 10 mm or 5-core cable Ø 6.3 mm

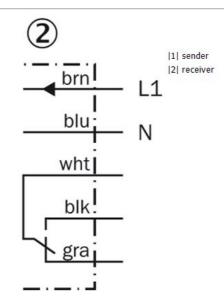
Adjustments possible



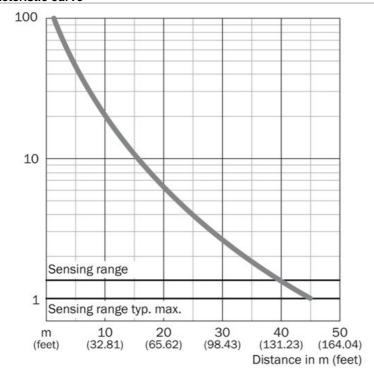
|4| Receive indicator

Connection diagram

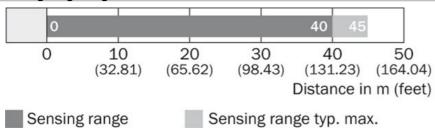




Characteristic curve



Sensing range diagram



Connection type



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