Photoelectric sensors W280, Through-beam photoelectric sensor

WS/WE280-S230







 Model Name
 > WS/WE280-S230

 Part No.
 > 6027488

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: Dimensions (W x H x D): Housing design (light emission): Sensing range max.: Sensing range: Type of light: Light source: Angle of dispersion: Adjustment: Light spot size (distance):

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

Through-beam photoelectric sensor 23.5 mm x 74.5 mm x 63 mm Rectangular 0 m ... 45 m 0 m ... 40 m Visible red light LED ¹⁾ 1.4 ° Sensitivity adjustment 40 m



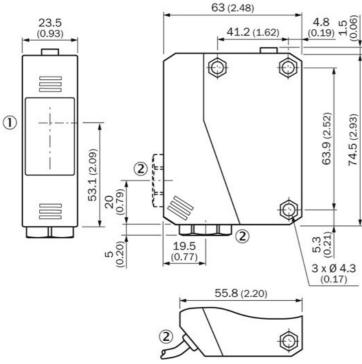


Illustration may differ

Supply voltage::	24 V AC 240 V AC, 24 V DC 240 V DC ^{1) 2)}
Power consumption, sender:	≤ 3.5 VA
Power consumption, receiver:	≤ 3.5 VA
Output type:	Relay ³⁾
Output function:	Change-over contacts
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:	≤ 20 m <u>s</u>
Switching frequency:	25 Hz ⁵⁾
Angle of reception:	6 °
Connection type:	Cable <u>gl</u> and
Circuit protection::	A, C ^{6) (7)} II ⁸⁾
Protection class:	II ⁸⁾
Weight:	300 g
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 66
Items supplied:	Mounting bracket BEF-W280
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient operating temperature:	-25 °C 55 °C
Ambient storage temperature:	-40 °C 70 °C
$(1) (2) \pm 10 \%$ $(3) (4)$ Provide suitable spark supression for indu	ctive or capacitive loads ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V $_{S}$ connections reverse-polarity protected ⁷⁾ C =

interference suppression ^{o)} Rated voltage 250 V AC/DC

Dimensional drawing

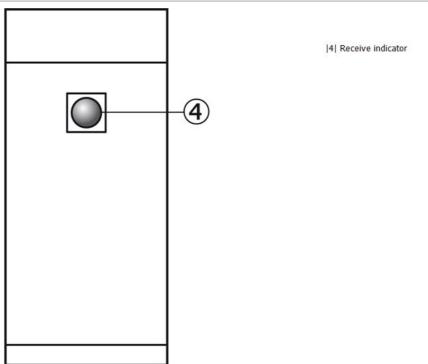


|1| Optical axis, sender and receiver

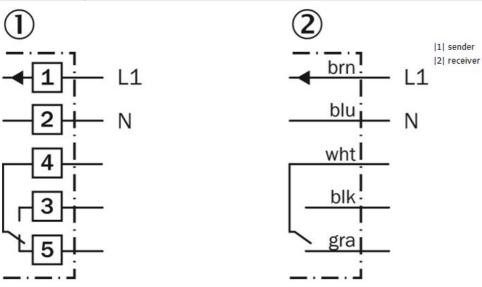
|2| Cable entry gland 1/2" PF for cable

diameter 6 to 10 mm or 5-core cable Ø 6.3 mm

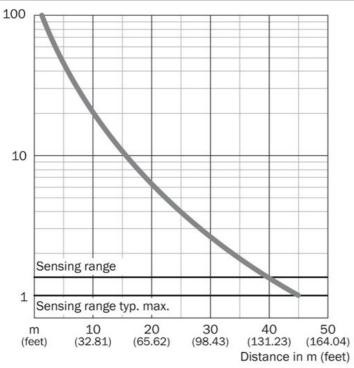
Adjustments possible



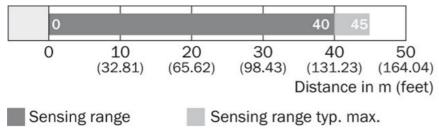
Connection diagram



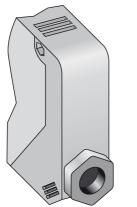
Characteristic curve



Sensing range diagram



Connection type



Australia Phone +61 3 9457 0600 1800 334 802 - tollfree E-Mail sales@sick.com.au

Belgium/Luxembourg Phone +32 (0)2 466 55 66 E-Mail info@sick.be

Brasil Phone +55 11 3215-4900 E-Mail sac@sick.com.br

Canada Phone +1 905 771 14 44 E-Mail information@sick.com

Ceská Republika Phone +420 2 57 91 18 50 E-Mail sick@sick.cz

China

Phone +86 4000 121 000 E-Mail info.china@sick.net.cn Phone +852-2153 6300 E-Mail ghk@sick.com.hk

Danmark Phone +45 45 82 64 00 E-Mail sick@sick.dk

Deutschland Phone +49 211 5301-301 E-Mail kundenservice@sick.de

España Phone +34 93 480 31 00 E-Mail info@sick.es

France Phone +33 1 64 62 35 00 E-Mail info@sick.fr

Great Britain Phone +44 (0)1727 831121 E-Mail info@sick.co.uk

India Phone +91-22-4033 8333 E-Mail info@sick-india.com

Israel Phone +972-4-6801000 E-Mail info@sick-sensors.com

Italia Phone +39 02 27 43 41 E-Mail info@sick.it

Japan Phone +81 (0)3 3358 1341 E-Mail support@sick.jp

Magyarország Phone +36 1 371 2680 E-Mail office@sick.hu

Nederlands Phone +31 (0)30 229 25 44 E-Mail info@sick.nl Norge

Phone +47 67 81 50 00 E-Mail austefjord@sick.no

Österreich Phone +43 (0)22 36 62 28 8-0 E-Mail office@sick.at Polska

Phone +48 22 837 40 50 E-Mail info@sick.pl

România Phone +40 356 171 120 E-Mail office@sick.ro

Russia Phone +7-495-775-05-30 E-Mail info@sick.ru

Schweiz Phone +41 41 619 29 39 E-Mail contact@sick.ch

Singapore Phone +65 6744 3732 E-Mail admin@sicksgp.com.sg

Slovenija Phone +386 (0)1-47 69 990 E-Mail office@sick.si

South Africa Phone +27 11 472 3733 E-Mail info@sickautomation.co.za

South Korea Phone +82 2 786 6321/4 E-Mail info@sickkorea.net

Suomi Phone +358-9-25 15 800 E-Mail sick@sick.fi

Sverige Phone +46 10 110 10 00 E-Mail info@sick.se

Taiwan Phone +886-2-2375-6288 E-Mail sales@sick.com.tw

Türkiye Phone +90 (216) 528 50 00 E-Mail info@sick.com.tr

United Arab Emirates Phone +971 (0) 4 8865 878 E-Mail info@sick.ae

USA/México Phone +1(952) 941-6780 1 800-325-7425 - tollfree E-Mail info@sickusa.com

More representatives and agencies at www.sick.com

