



Photoelectric sensors W280, Photoelectric proximity sensor, energetic

WT280-S230



Model Name > **WT280-S230**
Part No. > **6027480**



Illustration may differ

At a glance

- Visible red light
- Potentiometer for adjusting sensing range
- 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 included in delivery
- UL recognized

Your benefits

- Easy and fast commissioning due to a highly visible red light
- Simple operation via potentiometer
- Light/dark switching provides application flexibility
- 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
- DC devices and AC/DC devices available in the same housing, allowing electrical flexibility

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



Features

Sensor/detection principle:	Photoelectric proximity sensor, energetic
Dimensions (W x H x D):	23.5 mm x 74.5 mm x 63 mm
Housing design (light emission):	Rectangular
Sensing range max.:	10 mm ... 1,700 mm ¹⁾
Sensing range:	10 mm ... 1,200 mm
Type of light:	Visible red light
Light source:	LED ²⁾
Angle of dispersion:	1 °
Adjustment:	Adjustable via sensing range adjustment
Light spot size (distance):	1.3 mm

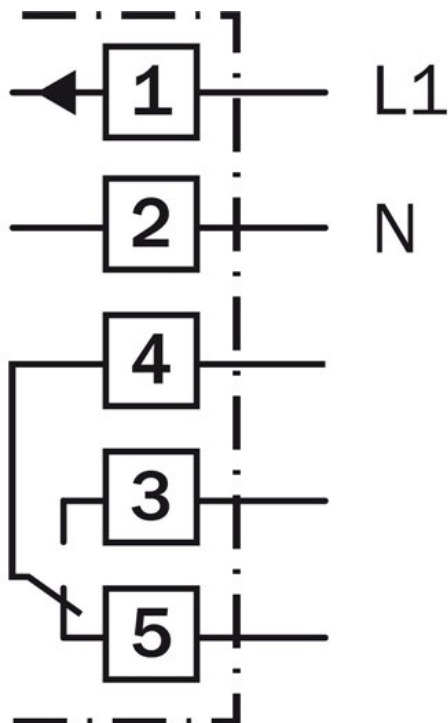
¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

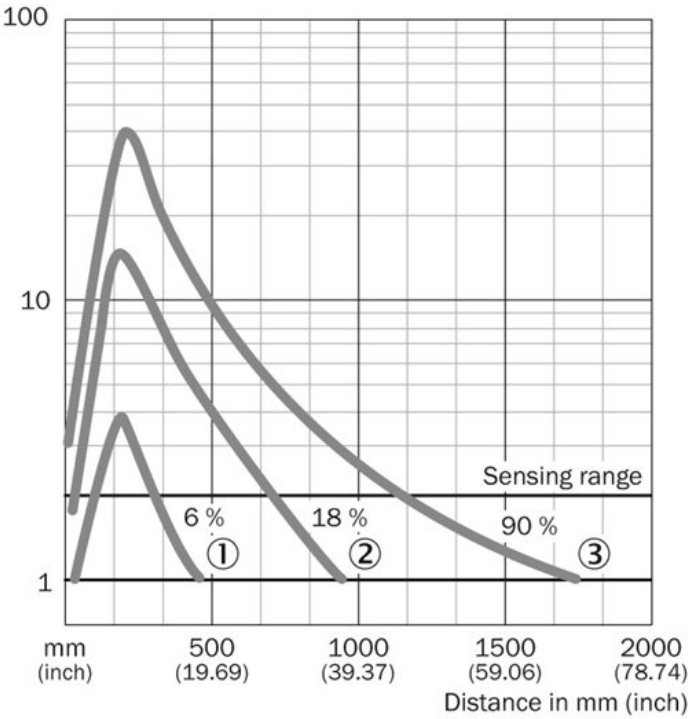
Supply voltage::	24 V AC ... 240 V AC, 24 V DC ... 240 V DC ^{1) 2)}
Power consumption:	≤ 5 VA
Output type:	Relay
Output function:	Change-over contacts
Switching mode:	Light switching ³⁾
Output characteristic:	Electrically isolated
Switching current (switching voltage):	3 A (240 V AC), 3 A (30 V DC)
Response time:	≤ 20 ms
Switching frequency:	25 Hz ⁴⁾
Connection type:	Cable gland
Circuit protection::	A, C ^{5) 6)}
Protection class:	II ⁷⁾
Weight:	150 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)} ±10 % ³⁾ Provide suitable spark suppression for inductive or capacitive loads ⁴⁾ With light/dark ratio 1:1 ⁵⁾ A = V_S connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ Rated voltage 250 V AC/DC

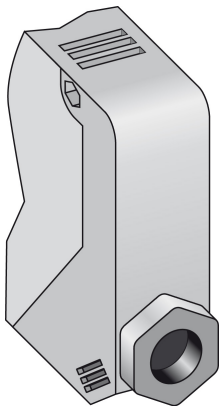
Connection diagram



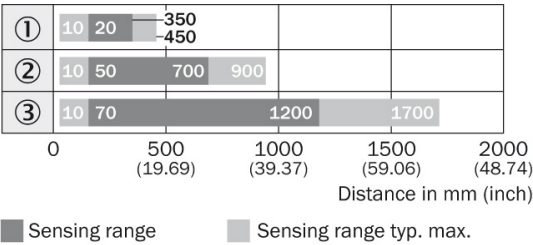
Characteristic curve



Connection type



Sensing range diagram



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

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