

Proximity / Reflex Sensors
Product group W12-2, Photoelectric proximity
switch, energetic

WT12-2P450



Model Name > **WT12-2P450**

Part No. > **1016142**

- Red light; consequently, fast alignment is possible
- Insensitive to external light sources, i.e., increased operating reliability
- M12 plug rotatable by 90°, or 2 m cable
- Energetic proximity switch, scanning distance adjustable; ideal for standard applications



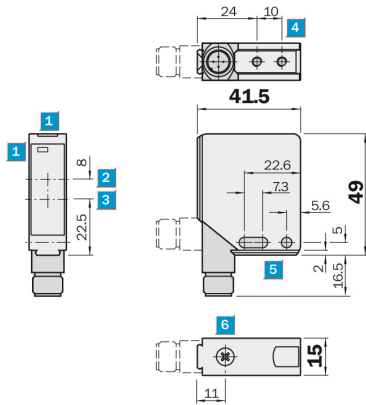
Product features

Sensing range min ... max:	10 ... 1,000 mm
Adjustment:	Potentiometer
Light source:	LED
Type of light:	Red light
Light spot diameter:	30 mm at 600 mm distance

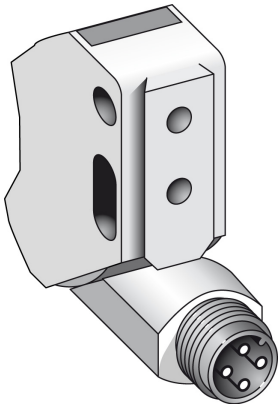
Technical data

Design:	cuboid
Dimensions (W x H x D):	15 x 49 x 41.5 mm
Supply voltage min ... max:	DC 10 ... 30 V
Ripple:	≤ 5 Vpp
Power consumption:	≤ 30 mA
Switching output:	PNP antivalent
Output current max.:	≤ 100 mA
Response time:	≤ 330 μs
Switching frequency:	1,500 Hz
Connection type:	Connector, M12, 4-pin
Circuit protection:	Vs connections reverse-polarity protected/Output Q and Q not short-circuit protected/Interference suppression
Enclosure rating:	IP 69K
Ambient operation temperature, min ... max:	-40 °C ... +60 °C
Ambient storage temperature, min ... max:	-40 °C ... +75 °C
Weight:	ca. 120 g
Housing material:	die-cast zinc
Included with delivery:	2 clamps BEF-KH-W12

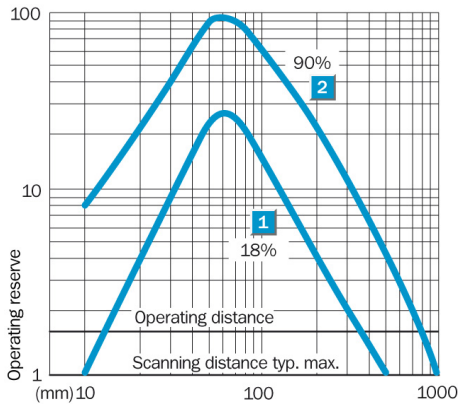
Dimensional drawing



Connection type



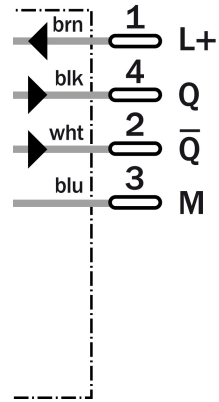
Characteristic curve



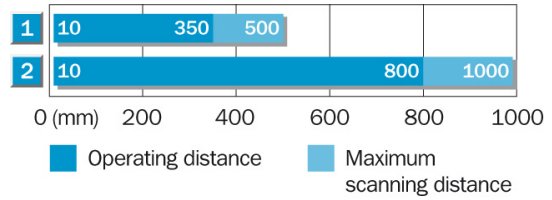
Adjustment possible



Connection diagram



Sensing range diagram



- 1 Scanning distance on grey, 18% remission
- 2 Scanning distance on white, 90% remission

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