



Photoelectric sensors  
Photoelectric retro-reflective sensor

WL11-F2430



**Model Name** > [WL11-F2430](#)  
**Part No.** > [1040172](#)



- Red light for easier alignment
- Ambient temperature, operation: -25 °C ... + 55 °C
- Switching frequency 200 Hz
- PNP, dark-switching
- Dovetail housing
- M12 plug rotatable by 90°



#### Product features

Sensing range min ... max::	0.1 m ... 5 m, 0.1 m ... 7 m
Light source::	LED
Type of light:	Red light
Light spot diameter:	80 mm at 3 m distance
Laser:	Red light
Sensing range max.:	0.1 m ... 5 m, 0.1 m ... 7 m
Relating to:	Reflector PL80A

#### Technical data

Design::	Rectangular
Dimensions (W x H x D):	15.2 mm x 51 mm x 43.5 mm
Supply voltage min ... max.:	DC 30 ... 10 V <sup>1)</sup>
Ripple:	< 5 Vpp
Power consumption:	< 40 mA
Output type:	PNP, Q/
Switching mode:	Dark-switching
Output current max.:	< 100 mA
Response time::	2.5 s
Switching frequency:	200 Hz
Connection type:	Connector, M12, 4-pin
Circuit protection:	V <sub>S</sub> connections reverse-polarity protected/All outputs short-circuit protected/Interference suppression
Enclosure rating::	IP 65
Ambient operation temperature, min ... max.:	-25 °C ... +55 °C
Ambient storage temperature, min ... max:	-40 °C ... +70 °C
Weight:	40 g
Housing material:	ABS
Signal voltage PNP HIGH/LOW:	V <sub>S</sub> - 2.9 V / approx. 0 V
Angle of dispersion:	2 °

Series:

W11

1)  
Limit values

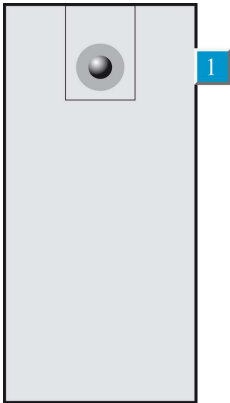
### Dimensional drawing

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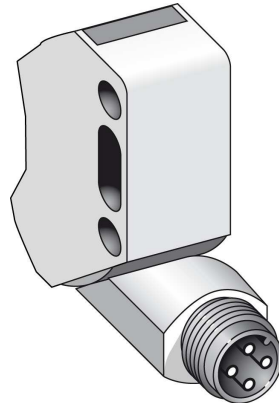
### Adjustment possible

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### Connection type

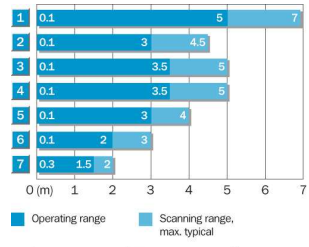
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## Connection diagram

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## Sensing range diagram



Reflector type	Operating range
1	PL 80 A
2	C 110
3	PL 50 A
4	PL 40 A
5	PL 30 A
6	PL 20 A
7	Reflective tape

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