



Photoelectric sensors W260, Photoelectric retro-reflective sensor

WL260-0230S01



Model Name > [WL260-0230S01](#)
Part No. > [6010102](#)



Illustration may differ

Your benefits

- High operating reserve provides increased reliability
- Configuration controls are protected by a cover, ensuring less damage and a longer service life
- Easily accessible terminal chamber for electrical connections simplifies installation
- Simplified integration due to mounting compatibility since variants for DC or DC/AC voltage supply are available in the same design
- Polarizing filter ensures reliable detection, even with shiny targets



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor
Dimensions (W x H x D):	25 mm x 78 mm x 63 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0.01 m ... 15 m ¹⁾
Sensing range::	0.01 m ... 10 m, 0.01 m ... 13 m ^{2) 3)}
Type of light:	Visible red light
Light source:	LED ⁴⁾
Light spot (distance):	300 mm (10 m)
Sensitivity adjustment:	Potentiometer, 270°
Angle of dispersion:	1.7 °

^{1) 3)} PL80A ²⁾ P250 ⁴⁾ Average service life 100,000 h at Ta = +25 °C

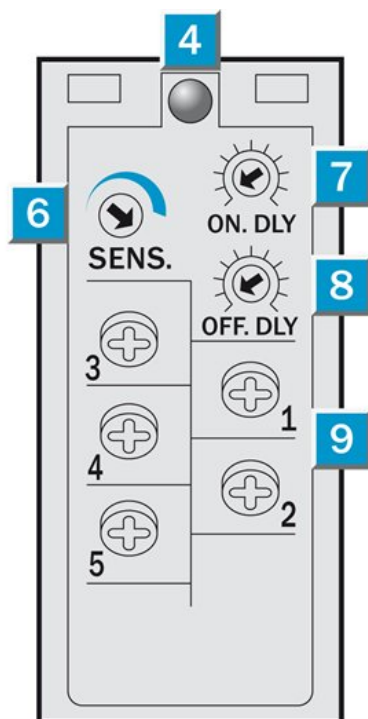
Mechanics/electronics

Supply voltage:	20 V AC/DC ... 30 V AC/DC ¹⁾
Power consumption:	≤ 70 mA ²⁾
Output type:	Relay, Light-switching, NO ³⁾
Switching current (switching voltage):	2 A
Response time:	≤ 20 ms
Switching frequency:	25 Hz ⁴⁾
Connection type:	Cable gland
Circuit protection::	A, C ^{5) 6)}
Protection class:	II ⁷⁾
Weight:	120 g
Polarisation filter:	✓
Special device:	✓

1) Limit values 2) Without load 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

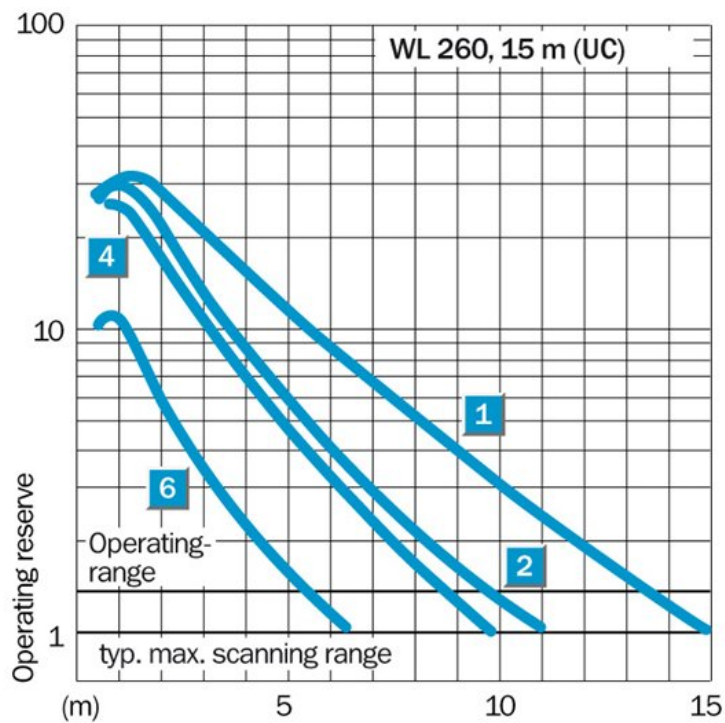
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Adjustments possible

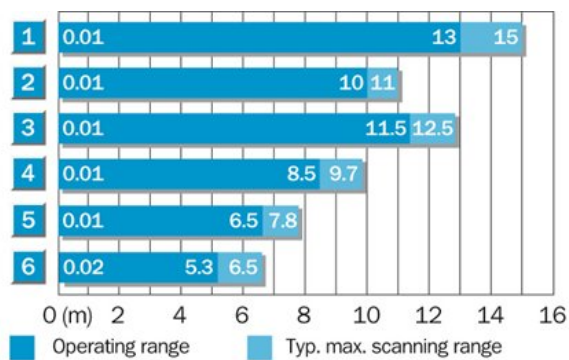


- |4| LED signal strength indicator, red
- |6| Sensitivity adjustment
- |7| Time control ON delay tON
- |8| Time control OFF delay tOFF
- |9| Terminals

Characteristic curve

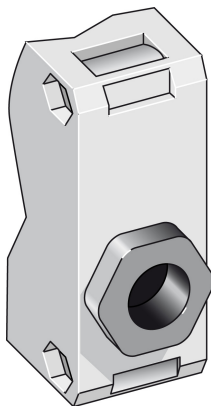


Sensing range diagram



	Reflector type	Operating range
1	PL 80 A	0.01 ... 13.0 m
2	P 250	0.01 ... 10.0 m
3	PL 50 A or PL 40 A	0.01 ... 11.5 m
4	PL 30 A or PL 31 A	0.01 ... 8.5 m
5	PL 20 A	0.01 ... 6.5 m
6	Reflective tape Diamond Grade	0.02 ... 5.3 m

Connection type



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