



Photoelectric sensors Through-beam photoelectric sensor, Product group W160

WS/WE160-F340



Model Name > [WS/WE160-F340](#)
Part No. > [6022757](#)



- Vertical models
- Slotted masks (accessories) for detecting small objects or positioning jobs
- Red light as alignment aid
- Sensitivity adjustable
- LED indicator: operating reserve



Product features

Sensing range min ... max:	0 m ... 11 m, 0 m ... 15 m
Light source:	LED
Type of light:	Red light
Light spot diameter:	Approx. 1500 mm at 10 m distance
Laser:	Red light
Sensing range max.:	0 m ... 11 m, 0 m ... 15 m
Sensitivity adjustment:	Potentiometer, 2 rotations
Wave length:	680 nm

Technical data

Design:	Rectangular
Dimensions (W x H x D):	11 mm x 38 mm x 23 mm
Supply voltage min ... max:	DC 10 ... 30 V ¹⁾
Ripple:	± 10 %
Switching output:	PNP: open collector: Q
Switching mode:	Light/dark switching via rotary switch
Output current max.:	100 mA
Response time:	≤ 0.5 ms
Switching frequency:	1,000 Hz
Connection type:	Connector, M8, 3-pin
Circuit protection:	V _s connections reverse-polarity protected/In-/outputs short-circuit protected/Interference suppression/receiver only/Outputs overcurrent and short-circuit protected/receiver only
Enclosure rating:	IP 67: EN 60529, IP 69K: EN 40050
Ambient operation temperature, min ... max:	-25 °C ... +55 °C
Ambient storage temperature, min ... max:	-40 °C ... +70 °C
Weight:	Ca. 20 g
Housing material:	PBT
Signal voltage PNP HIGH/LOW:	V _s - 1.8 V/approx. 0 V
Angle of dispersion:	ca. 8.5 °

1) Limit values, reverse-polarity protected operation in short-circuit protected network max. 8 A

Technical drawings of the SLM 1000 sensor showing front and side views with dimensions.

Front View Dimensions:

- Top width: 11
- Top flange height: 3
- Main body height: 18.7
- Total height: 38
- Bottom flange height: 11

Side View Dimensions:

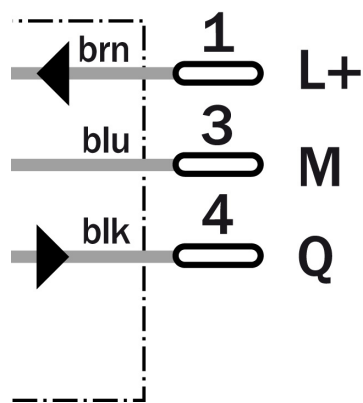
- Total width: 23
- Top flange height: 8.1
- Optical axis height: 15.4
- Connection height: 10
- Bottom flange height: 10
- Bottom flange diameter: $\varnothing 4.2$

Legend:

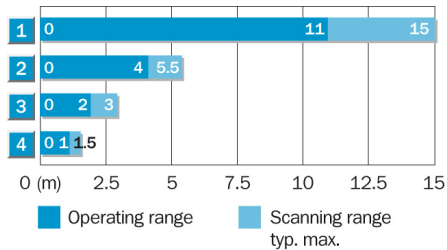
- [1] Center of optical axis
- [2] Connection

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Connection diagram

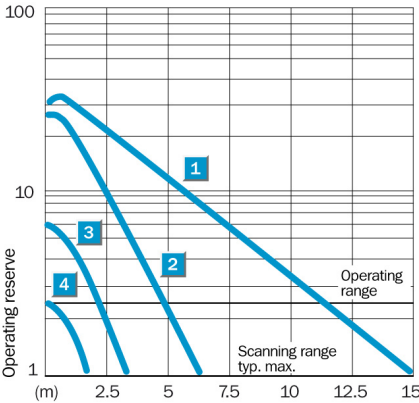


Sensing range diagram



1	Without slotted mask
2	With slotted mask 2 mm, BL-160-SK
3	With slotted mask 1 mm, BL-160-SK
4	With slotted mask 0.5 mm, BL-160-SK

Characteristic curve



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