

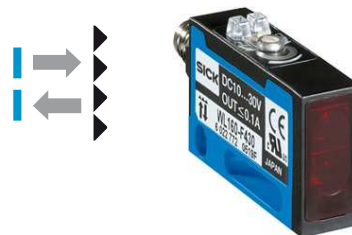


Photoelectric sensors
Photoelectric retro-reflective sensor, Product
group W160

WL160-F132



Model Name > [WL160-F132](#)
Part No. > [6022767](#)



- Horizontal models
- Polarization filter, consequently reliable detection of objects with shiny surfaces
- Red light as alignment aid
- Sensitivity adjustable
- LED indicator: operating reserve



Product features

Sensing range min ... max::	0.01 m ... 4.5 m, 0.01 m ... 6.5 m
Light source::	LED
Type of light:	Red light
Light spot diameter:	Approx. 300 mm at 3 m distance
Laser:	Red light
Sensing range max.:	0.01 m ... 4.5 m, 0.01 m ... 6.5 m
Relating to:	Reflector PL80A
Sensitivity adjustment:	Potentiometer, 2 rotations
Wave length:	680 nm

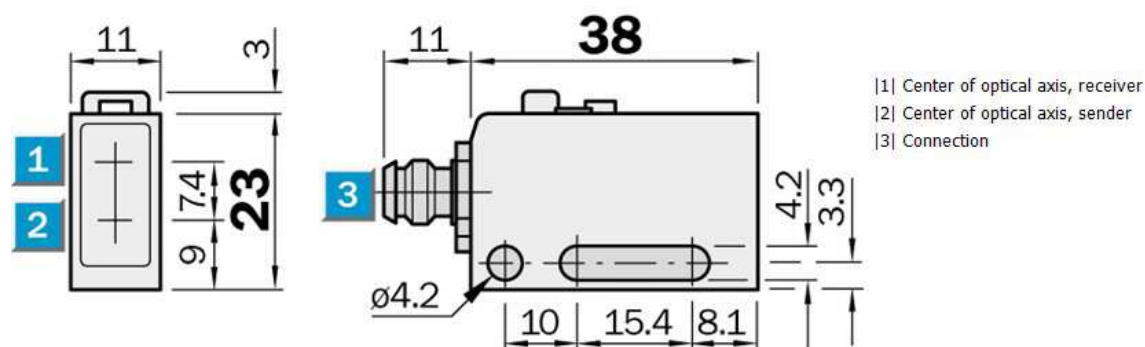
Technical data

Design::	Rectangular
Dimensions (W x H x D):	11 mm x 23 mm x 38 mm
Supply voltage min ... max::	DC 10 ... 30 V ¹⁾
Ripple:	± 10 %
Power consumption:	≤ 25 mA
Output type:	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:	Cable, 2 m
Number of cores:	3
Conductor size:	0.2 mm ²
Circuit protection:	V connections reverse-polarity protected/In-/outputs short-circuit protected/Interference suppression/Outputs overcurrent and short-circuit protected
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

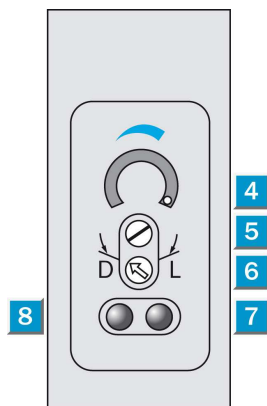
Weight:	Ca. 60 g
Housing material:	PBT
Signal voltage PNP HIGH/LOW:	Vs - 1.8 V/approx. 0 V
Cable material::	PVC
Angle of dispersion:	Ca. 5.8 °
Series:	W160
Optics material:	PMMA
Cable diameter:	Ø 4.2 mm
Housing design:	Horizontal

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

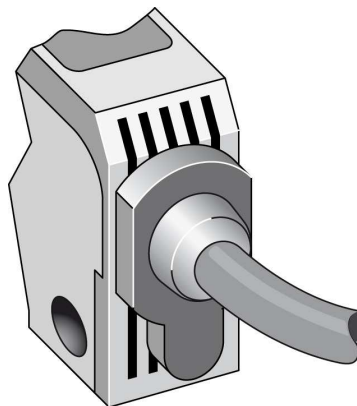
Dimensional drawing



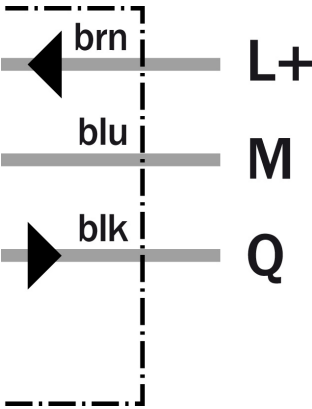
Adjustment possible



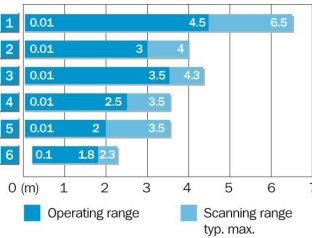
Connection type



Connection diagram

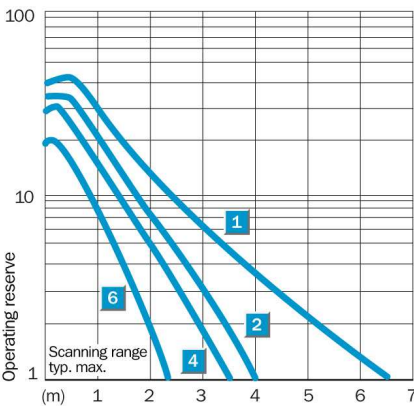


Sensing range diagram



Reflector type	Operating range
1	PL80A
2	P250
3	PL50A/PL40A
4	PL30A/PL31A
5	PL20A
6	Reflective tape Diamond Grade

Characteristic curve



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