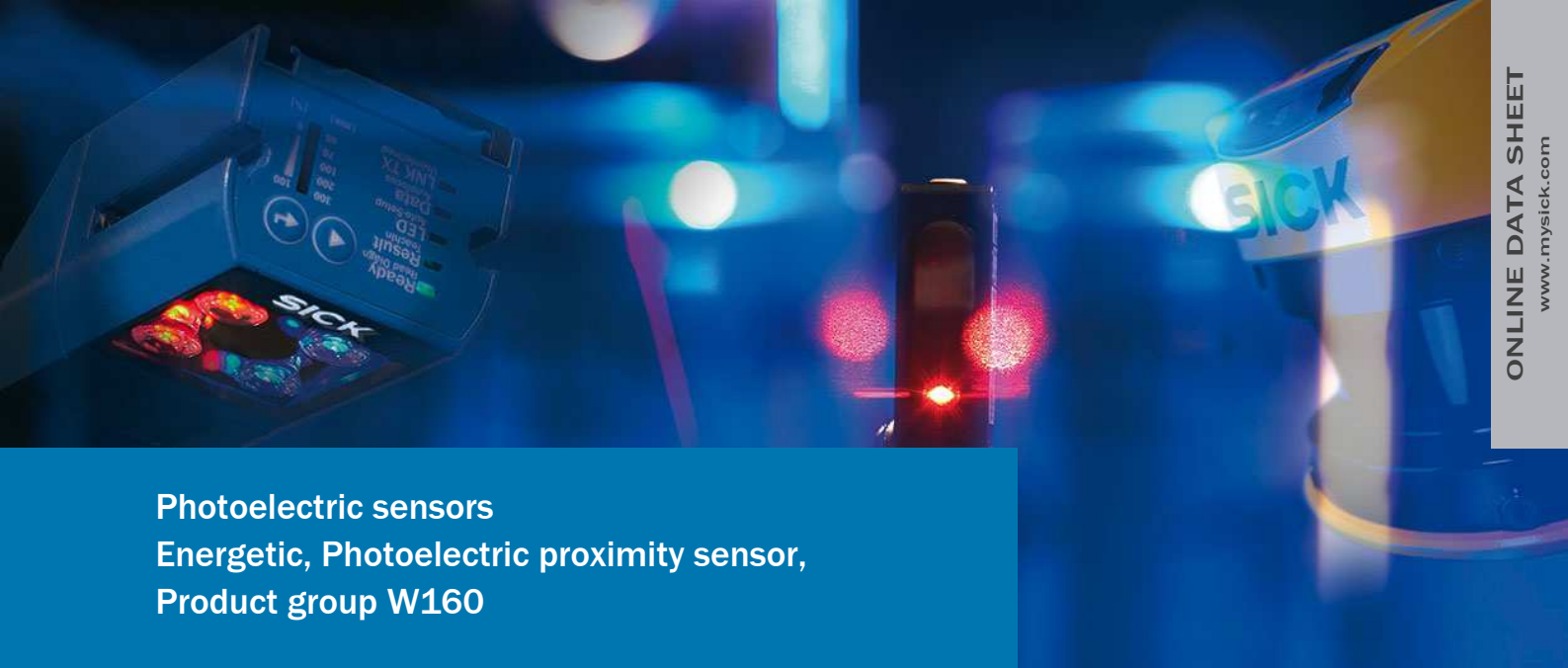


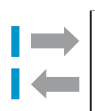


Photoelectric sensors
Energetic, Photoelectric proximity sensor,
Product group W160

WT160-E480



Model Name > [WT160-E480](#)
Part No. > [6022814](#)



- Vertical models
- Energetic proximity switch for standard applications
- Red light as alignment aid
- Switching point adjustable
- LED indicator: operating reserve



Product features

Sensing range min ... max::	0 mm ... 1,000 mm, 0 mm ... 800 mm
Light source::	LED
Type of light:	Red light
Light spot diameter:	Approx. 90 mm at 500 mm distance
Laser:	Red light
Sensing range max.:	0 mm ... 1,000 mm, 0 mm ... 800 mm
Adjustment::	Potentiometer, 2 rotations
Wave length:	680 nm

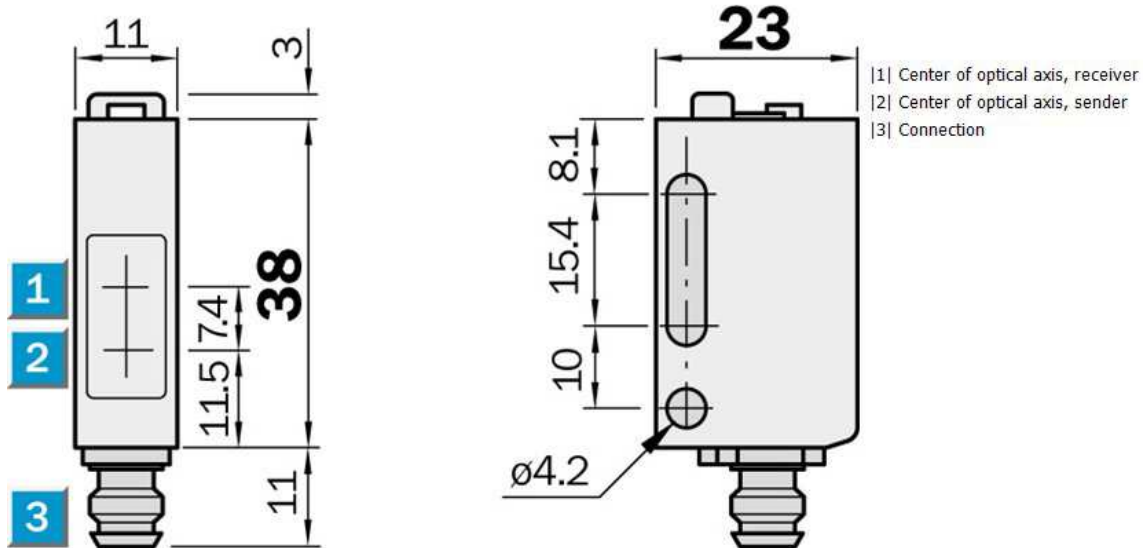
Technical data

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 %
Power consumption:	≤ 25 mA
Output type:	NPN: open collector: Q
Switching mode:	Light/dark switching via rotary switch
Signal voltage NPN HIGH/LOW:	Approx. $V_S / < 1.8 \text{ V}$
Output current max.:	100 mA
Response time::	≤ 0.5 ms
Switching frequency:	1,000 Hz
Connection type:	Connector, M8, 4-pin
Circuit protection:	V_S 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. 20 g

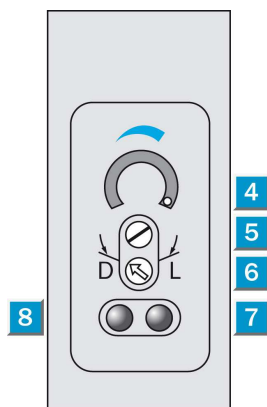
Housing material:	PBT
Angle of dispersion:	ca. 10 °
Series:	W160
Optics material:	PMMA
Housing design:	Vertical

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

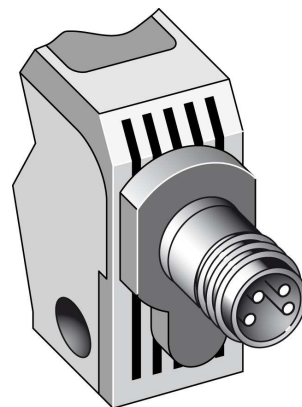
Dimensional drawing



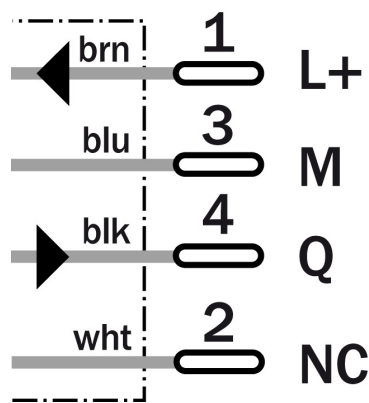
Adjustment possible



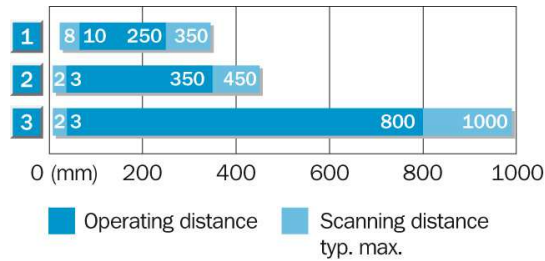
Connection type



Connection diagram

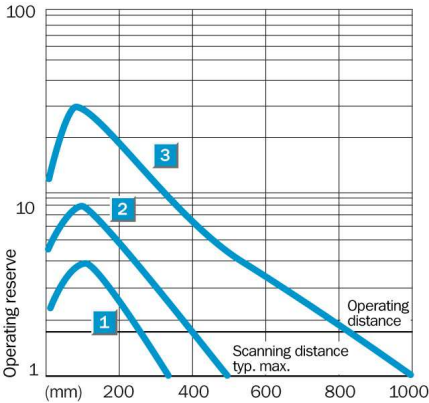


Sensing range diagram



1	Scanning range on black, 6 % remission
2	Scanning range on grey, 18 % remission
3	Scanning range on white, 90 % remission

Characteristic curve



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