



Photoelectric sensors
Background blanking, Photoelectric proximity
sensor, Product group W160

WT160-F420



Model Name > [WT160-F420](#)
Part No. > [6022790](#)



- Vertical models
- Focussed proximity switch with background blanking
- Red light as alignment aid
- Switching point adjustable
- LED indicator: operating reserve



Product features

Sensing range min ... max::	4 mm ... 60 mm, 8 mm ... 50 mm
Light source::	LED
Type of light:	Red light
Light spot diameter:	Approx. 3 mm at 25 mm distance
Laser:	Red light
Sensing range max.:	4 mm ... 60 mm, 8 mm ... 50 mm
Adjustment::	Potentiometer, 2 rotations
Wave length:	680 nm

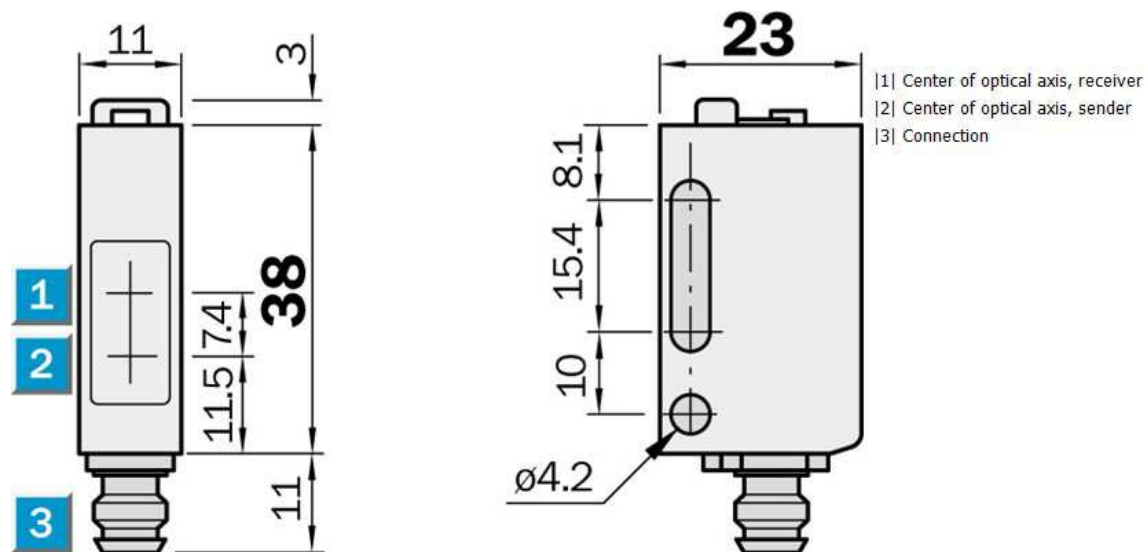
Technical data

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:	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, 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

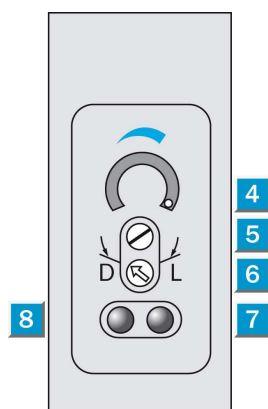
Housing material:	PBT
Signal voltage PNP HIGH/LOW:	Vs - 1.8 V / approx. 0 V
Series:	W160
Optics material:	PMMA
Housing design:	Vertical

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

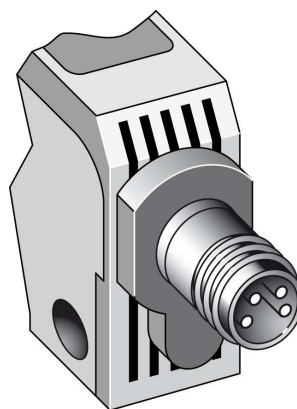
Dimensional drawing



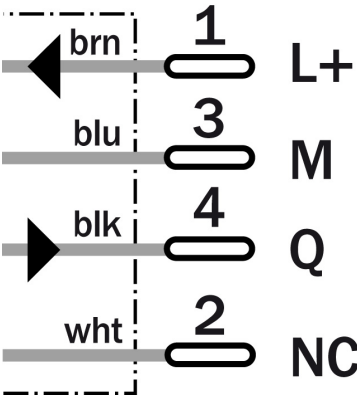
Adjustment possible



Connection type



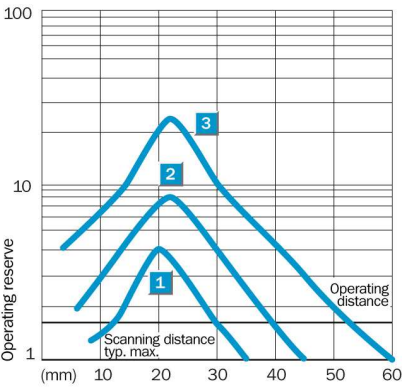
Connection diagram



Sensing range diagram

Image Unavailable

Characteristic curve



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