



Photoelectric sensors
Photoelectric switch for fibre-optic cables,
Product group W160

WLL160-F420



Model Name > [WLL160-F420](#)
Part No. > [6009990](#)



- Sensitivity setting with potentiometer, scaled
- Large selection of LL3 fiber-optic cables
- Switch-off delay 0 to 100 ms
- Contamination control output and test input for equipment and system testing



Product features

Light source:	LED
Type of light:	Red light
Light spot diameter:	Depending on the scanning range
Wave length:	660 nm
Sensing range min ... max (through-beam system):	0 mm ... 2,000 mm
Fibre-optic cable (through-beam system):	LL3-TB02 and tip adapter LL3-TA01
Sensing range min ... max (proximity system):	0 mm ... 70 mm
Fibre-optic cable (proximity system):	LL3-DB01

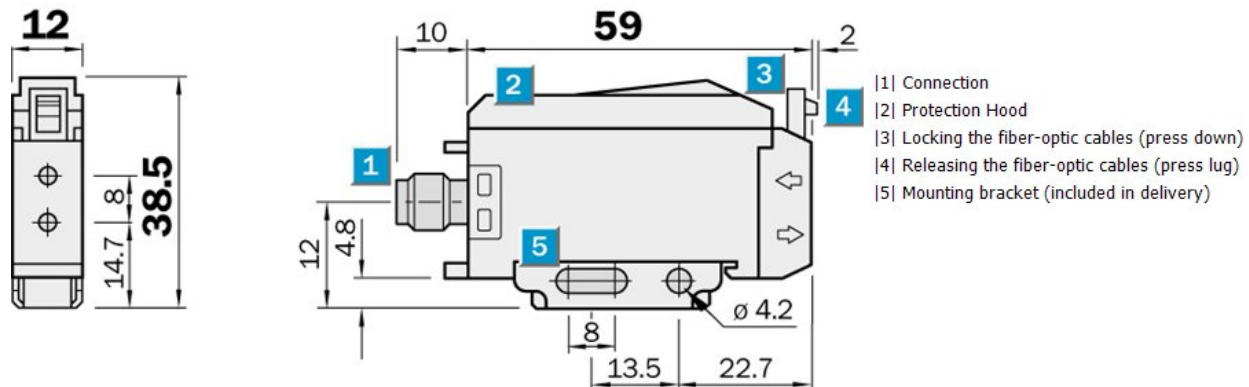
Technical data

Design:	Rectangular
Dimensions (W x H x D):	12 mm x 38.5 mm x 59 mm
Supply voltage min ... max:	DC 10 ... 30 V ¹⁾
Ripple:	± 10 %
Power consumption:	≤ 30 mA
Switching output:	PNP: open collector: Q
Switching mode:	Light-/dark-switching via slide switch
Output current max.:	100 mA
Response time:	≤ 0.35 ms
Switching frequency:	1,500 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 66
Ambient operation temperature, min ... max:	-25 °C ... +55 °C
Ambient storage temperature, min ... max:	-40 °C ... +70 °C
Weight:	ca. 30 g
Housing material:	ABS
Angle of dispersion:	ca. 65 °
Series:	W160

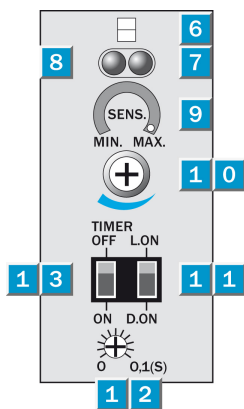
Time delay:	Selectable, via slide switch
Time type:	Switch-off delay TOFF 0 ... 100 ms
Front screen heating:	-
Polarisation filter:	-
Alarm output:	-

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

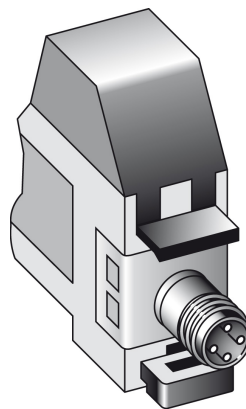
Dimensional drawing



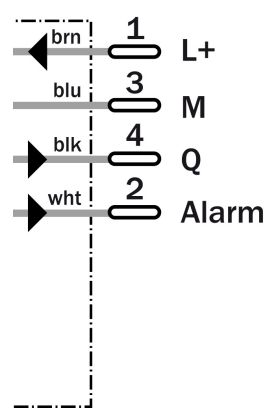
Adjustment possible



Connection type



Connection diagram



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