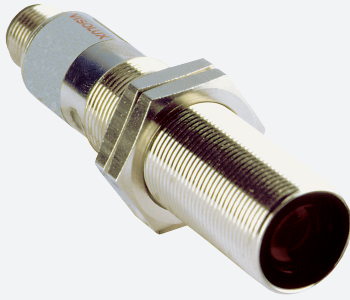


Laser pointer

M18-2500-RT-LAS-P/92

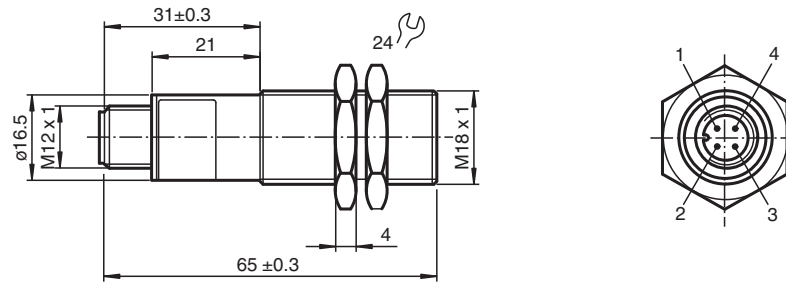


- Visible red light, pulsed LASER light
- Laser class 1, eyesafe

Laser pointer



Dimensions



Technical Data

General specifications

Effective detection range	0 ... 2.5 m
Threshold detection range	18 m

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PF PEPPERL+FUCHS

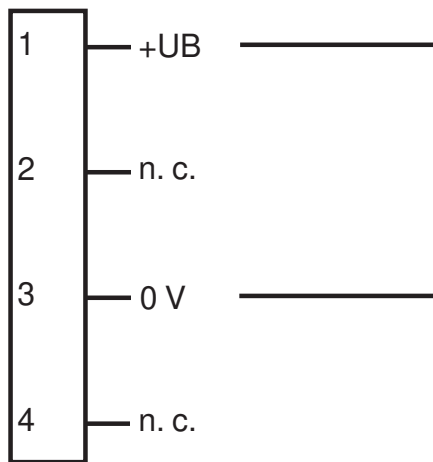
Technical Data

Light source	laser diode	
Light type	modulated visible red light	
Laser nominal ratings		
Note	LASER LIGHT , DO NOT STARE INTO BEAM	
Laser class	1	
Wave length	650 nm	
Beam divergence	1.5 mrad	
Pulse length	15 μ s	
Repetition rate	10 kHz	
max. pulse energy	< 10.2 nJ	
Diameter of the light spot	approx. 2.5 mm at detection range 2.5 m	
Optical face	frontal	
Functional safety related parameters		
MTTF _d	520.4 a	
Mission Time (T _M)	7 a	
Diagnostic Coverage (DC)	0 %	
Electrical specifications		
Operating voltage	U _B	10 ... 30 V DC
Ripple	10 %	
No-load supply current	I ₀	emitter \leq 25 mA
Conformity		
Product standard	EN 60947-5-2	
Laser safety	IEC 60825-1:2007	
Compliance with standards and directives		
Standard conformity		
Shock and impact resistance	IEC / EN 60068, half-sine, 30 g in X, Y and Z direction	
Vibration resistance	IEC / EN 60068-2-6. Sinus. 10 -150 Hz, 5 g in each X, Y and Z directions	
Approvals and certificates		
CCC approval	CCC approval / marking not required for products rated \leq 36 V	
Ambient conditions		
Ambient temperature	0 ... 50 °C (32 ... 122 °F)	
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)	
Mechanical specifications		
Degree of protection	IP65	
Connection	4-pin, M12 x 1 connector	
Material		
Housing	brass, nickel-plated	
Optical face	glass	
Connector	metal	
Mass	45 g	

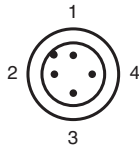
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Connection Assignment

Option: /92



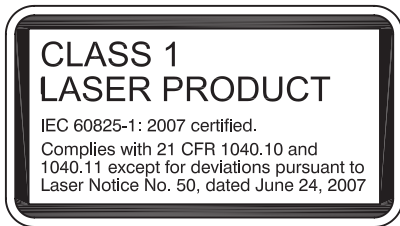
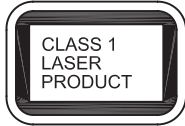
Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Safety Information



Safety Information

Laser Class 1 Information

The irradiation can lead to irritation especially in a dark environment. Do not point at people!
 Maintenance and repairs should only be carried out by authorized service personnel!
 Attach the device so that the warning is clearly visible and readable.
 The warning accompanies the device and should be attached in immediate proximity to the device.
 Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.




Accessories

	CPZ18B03	Mounting Bracket with swivel nut
	OMH-VL18	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
	BF 18-F	Plastic mounting adapter, 18 mm
	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
	V1-G-2M-PVC	Female cordset single-ended M12 straight A-coded, 4-pin, PVC cable grey
	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	V1-W-2M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey

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Accessories

	V1-G-5M-PVC	Female cordset single-ended M12 straight A-coded, 4-pin, PVC cable grey
	V1-G-5M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey
	V1-W-5M-PUR	Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey