



Laser pointer

M18-2500-RT-LAS-P/92

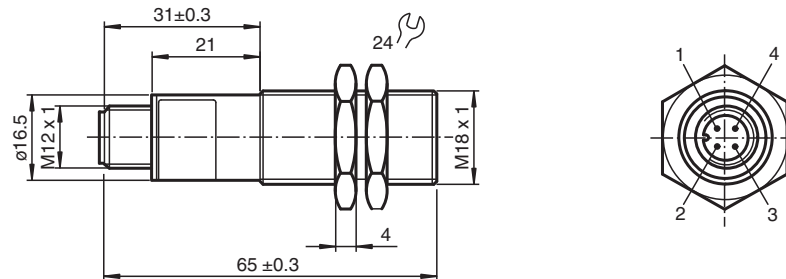
- Visible red light, pulsed LASER light
- Laser class 1, eyesafe



Laser pointer



Dimensions



Technical Data

General specifications

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

Release date: 2023-04-04 Date of issue: 2023-04-04 Filename: 233999_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

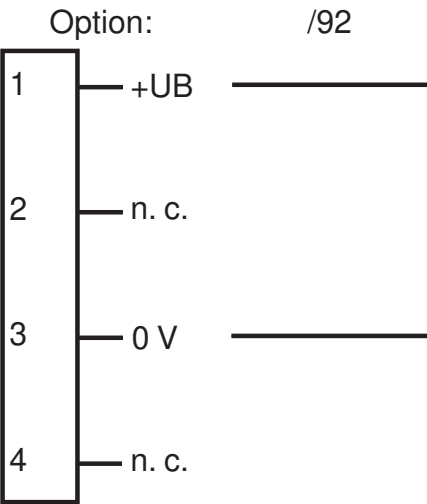
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

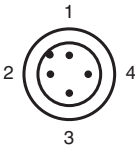
Technical Data

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 μs
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 ≤ 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 ≤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

Connection Assignment



Connection Assignment

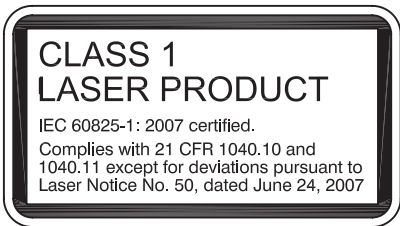


Wire colors in accordance with EN 60947-5-2

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

Release date: 2023-04-04 Date of issue: 2023-04-04 Filename: 233999_eng.pdf

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

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

Release date: 2023-04-04 Date of issue: 2023-04-04 Filename: 233999_eng.pdf