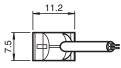
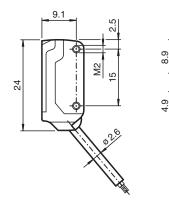


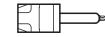
Triangulation sensor with background suppression for standard applications, miniature design, 15 mm detection range, red light, light on, PNP output, fixed cable

The nano sensor has been developed for a broad range of applications. It offers excellent durability and is exceptionally easy to install. The housing is compact and, with its 45° cable outlet, can be installed in the smallest spaces. New functional principles and functionality open up a range of new options.

Dimensions







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

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Technical Data

General specifications		
Detection range		2 15 mm
Reference target		standard white, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light , 630 nm
Black-white difference (6 %/90 %)		< 5 % at 15 mm
Angle deviation		approx. 2°
Diameter of the light spot		approx. 2 mm at a distance of 15 mm
Opening angle		approx. 2 °
Optical face		frontal
Ambient light limit		EN 60947-5-2 : 30000 Lux
Functional safety related parameters		
MTTF _d		800 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		
Operation indicator		LED green, statically lit Power on , short-circuit : LED green flashing (approx. 4 Hz)
Function indicator		LED green, statically in Fower on, shorecircuit. LED green hashing (approx. 4 12) LED yellow ON: lights when object is detected
Electrical specifications		
Operating voltage	U _B	10 30 V DC , class 2
No-load supply current	I ₀	< 10 mA
Output	10	
Switching type		NO contact
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 50 mA , resistive load
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	approx. 800 Hz
Response time		600 μs
Conformity		ουο μο
Product standard		EN 60947-5-2
Approvals and certificates		EN 00347-3-2
EAC conformity		TR CU 020/2011
UL approval		cULus Recognized, Class 2 Power Source
		-
CCC approval Ambient conditions		CCC approval / marking not required for products rated ≤36 V
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-25 60 °C (-15 140 °F) -30 70 °C (-22 158 °F)
Mechanical specifications		-50 70 -6 (-22 158 -F)
		7.5 mm
Housing width		7.5 mm 24 mm
Housing height		24 mm 11.2 mm
Housing depth		I 1.2 mm IP67
Degree of protection		
Connection		200 mm fixed cable with 4-pin, M8x1 connector
Material		
Housing		PC/ABS and TPU
Optical face		glass
Cable		PUR
Installation		Fixing screws, 2 x M2 allen head screws included with delivery
Mass		approx. 20 g
Cable length		200 mm

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

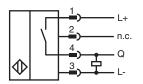
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Connection



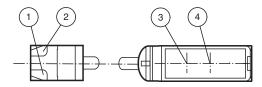
Connection Assignment



Wire colors in accordance with EN 60947-5-2

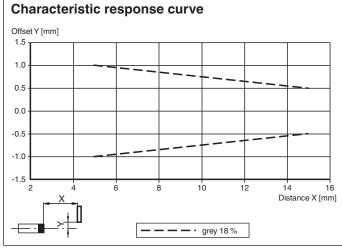
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Assembly



1	Operating display	green
2	Signal display	yellow
3	Emitter	
4	Receiver	

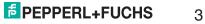
Characteristic Curve



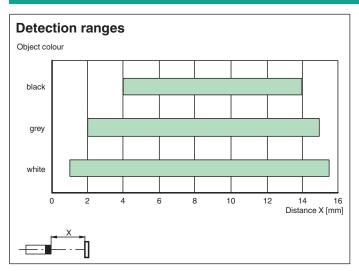
Release date: 2022-06-03 Date of issue: 2022-06-03 Filename: 262344_eng.pdf

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

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Characteristic Curve



Accessories

	MH-R2-01	Mounting aid for R2 series, Mounting bracket
(I)	MH-R2-02	Mounting aid for R2 series, Mounting bracket
	MH-R2-03	Mounting aid for R2 series, Mounting bracket
	MH-R2-04	Mounting aid for R2 series, Mounting bracket
\sum	V31-GM-2M-PUR	Female cordset single-ended M8 straight A-coded, 4-pin, PUR cable grey
	V31-WM-2M-PUR	Female cordset single-ended M8 angled A-coded, 4-pin, PUR cable grey

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