

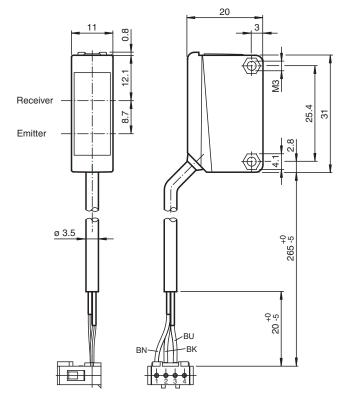
Retroreflective sensor with polarization filter, plastic housing, 5 m detection range, red light, sensitivity adjuster, light/dark on, DC version, PNP output, fixed cable with Stocko plug



Function

The optical sensors of this series are suitable for both standard and demanding applications. The series features a miniature housing design, two M3 metal-threaded mounting holes and a highly visible LED status indicator. Each device is equipped with a sensitivity adjuster and a light-on/dark-on changeover switch for increased flexibility. A wide variety of versions are available in both infrared light and red light with PowerBeam for easy alignment. Special versions with BlueBeam are suitable for challenging applications like those in the solar and battery industries.

Dimensions



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

Technical Data

MTTFg860 aMission Time (Tw)20 aDiagnostic Coverage (DC)0 %operation indicatorLED green: power onFunction indicatorLED green: power onFunction indicatorLED yellow: lights up when receiving the light beam ; flashes when falling short of the operating reserve; OFF when light beam is interruptedElectrical specifications0Operating voltageU_0No-load supply currentI_0Voltad supply currentI_0Signal output1 PNP output, short-circuit protected, reverse polarity protected, open collectorSwitching voltageU_0Switching voltageU_0I pNP output, short-circuit protected, reverse polarity protected, open collectorSwitching voltageU_0Switching frequencyfI to Do ASwitching frequencyfI to Do HzResponse time0.5 msConformityCL uprovalL aproval and certificatesCordormitycl the Cu 02/2011UL approvalcl capproval / marking not required for products rated s36 VAmbient conditions-00 °C (-40 158 °F)	General specifications		
Threshold detection range 7 m Reference target H50 reflector Light source LED Light hype modulated visible red light Detection fine yes Dameter of the light spot approx. 500 mm at a distance of 7 m Opening angle approx. 4.° Opening angle fordal Ambient Light limit E000 a Turnctional safty related parameters 9000 a Mission Time (Tin) 20 a Dignosite Covers(CO) 0 % Indicatorspearating means LED gene: power on Function indicator UP Operating vindicator LED gene: power on Function indicator No Operating vindicator Un Statching type max. 10 % Statching type max. 10 % Statching type Inght-on Signal output TPNP output, short-circuit protected, reverse polarity protected, open collector Statching urgenery Inght-on Signal output TPN Output, short-circuit protected, reverse polarity protected, open collector	Effective detection range		0 5 m
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Mass approx. 20 g Tightening torque, fastening screws 0.6 Nm	•		
Tightening torque, fastening screws 0.6 Nm			

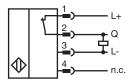
 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 General General

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

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

Connection



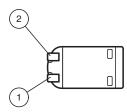
Connection Assignment



Wire colors in accordance with EN 60947-5-2

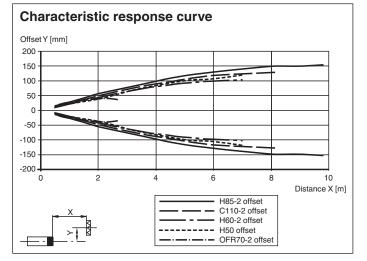
1	BN	(brown)
2	BK	(black)
3	BU	(blue)
4	n.c.	

Indication



1	Signal display	yellow
2	Operating display	green

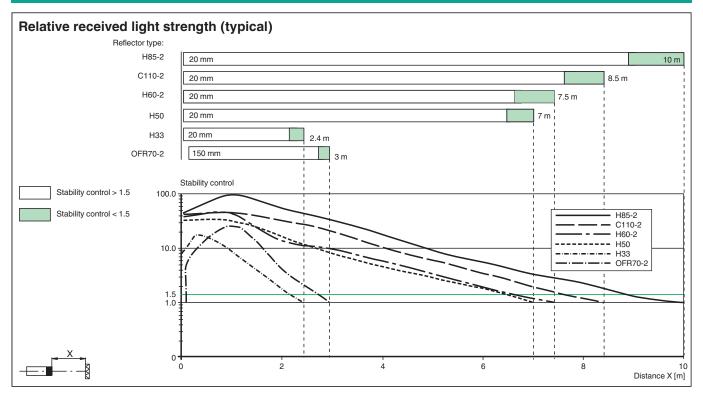
Characteristic Curve



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

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Characteristic Curve



Accessories

C.	OMH-ML100-09	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
~ ~	OMH-F10-ML100	Mounting aid for ML100 series
	OMH-ML100-01	Mounting aid for ML100 series, mounting bracket
	OMH-ML100-02	Mounting aid for ML100 series, mounting bracket
	OMH-ML100-03	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
	OMH-ML100-04	Mounting aid for ML100 series, mounting bracket
	OMH-ML100-05	Mounting aid for ML100 series, mounting bracket
	OMH-10	Mounting aid for ML100 series
	REF-C110-2	Reflector, round ø 84 mm, central mounting hole
	REF-H60-2	Reflector with mounting holes
	REF-H33	Reflector with screw fixing
	REF-H33	Reflector with screw fixing

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

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Accessories				
	OFR-70-2	Reflective tape 70 mm x 70 mm		
	REF-H85-2	Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes		
	REF-H50	Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap		
	OFR-100/100	Reflective tape 100 mm x 100 mm		

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

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Get

 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com

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