



Retroreflective sensor with polarization filter



ML100-55/59/82b/103/115a/154

- Miniature design
- Stability control warning
- Clearly visible LEDs for Power ON, switching state and weak signal indication
- No controls
- Very bright, highly visible light spot
- Full metal thread mounting

Retroreflective sensor with polarization filter



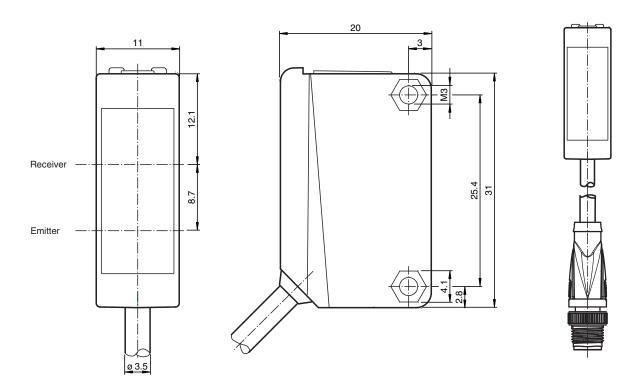
Function

The ML100 series is characterized by its miniature housing with integral, all-metal threaded bushings. All versions are equipped with a visible red transmitter LED. This greatly simplifies installation and commissioning. The switching states are easily visible from all directions thanks to the highly visible LEDs.

With the additional health output (stability alarm), an insufficient operating reserve of the sensor is indicated and can be used for predictive

maintenance. That saves costs and time

Dimensions



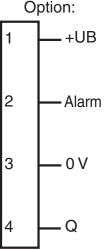
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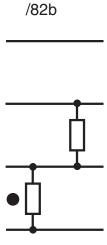
General specifications				
Effective detection range		0 5 m		
Reflector distance		0.01 5 m		
Threshold detection range		7 m		
Reference target		H50 reflector		
Light source		LED		
Light type		modulated visible red light		
Polarization filter		yes		
Diameter of the light spot		approx. 500 mm at a distance of 7 m		
Angle of divergence		approx. 4 °		
Optical face		frontal		
Ambient light limit		EN 60947-5-2		
Functional safety related parameters				
MTTF _d		860 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Operation indicator		LED green: power on		
Function indicator		LED yellow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted		
Electrical specifications				
Operating voltage	U _B	10 30 V DC		
Ripple		max. 10 %		

Technical Data

No-load supply current

< 20 mA





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

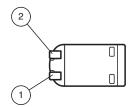
Connection Assignment



Wire colors in accordance with EN 60947-5-2

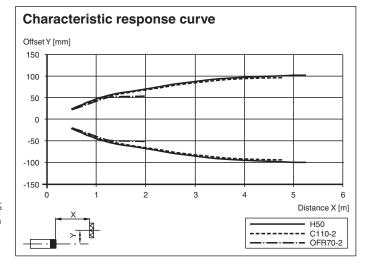
1 BN (brown) 2 WH (white) 3 BU (blue) 4 BK (black)

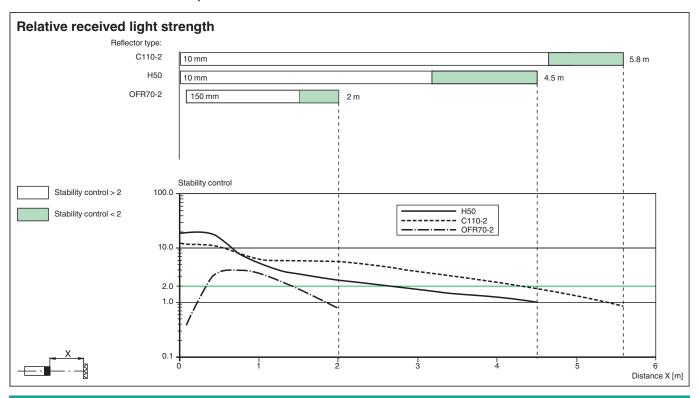
Assembly



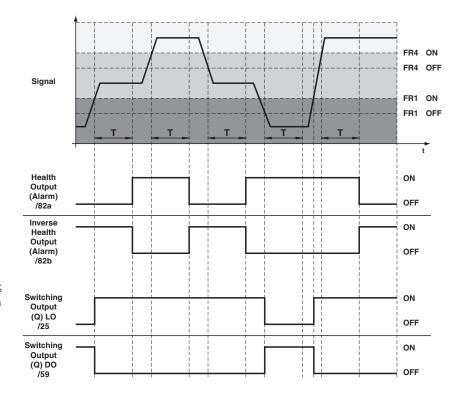
1	Signal display	yellow	
2	Operating display	green	

Characteristic Curve





Characteristic Curve





Stable light

Unstable light

Dark

Accessories					
	OMH-ML100-09	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm			
	OMIT-ME100-03	Mounting and for found steer of 12 min or sheet 1.5 min o min			
	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			
	REF-H85-2	Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes			
	REF-C110-2	Reflector, round ø 84 mm, central mounting hole			
	REF-H60-2	Reflector with mounting holes			
	REF-H50	Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap			
	REF-H33	Reflector with screw fixing			
	OFR-70-2	Reflective tape 70 mm x 70 mm			