#### Thru-beam sensor



# CE

#### **Model Number**

### MD17/MV17/115b/136

Thru-beam sensor

with fixed cable and M12 connector, 4-pin

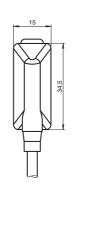
#### **Features**

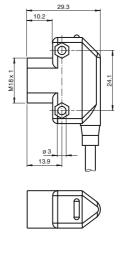
- Compact series in universal housing ٠ for standard applications
- Miniature design ٠
- Front mounting with M18-threads or ٠ side mounting holes
- 360° high visibility LEDs
- Time-saving mounting with quick • clamp system

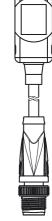
#### **Product information**

The ML17 sensor family offers diverse connection and installation options, which means that it can adapt to the most varied automation tasks. In addition to the usual fitting method using M4 screws, these sensors can also be installed by means of M18 threaded insert. All devices are equipped with a green Power On display and a yellow function display. These displays are arranged in such a way that they are clearly visible from different directions.

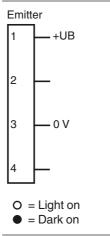
## Dimensions

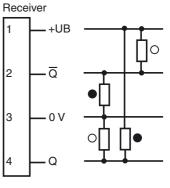






#### **Electrical connection**

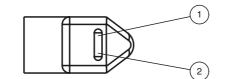




**Pinout** 



### Indicators/operating means



1	Signal display	yellow
2	Operating display	green

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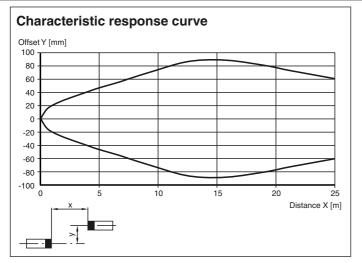
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#### Technical data

System components     MU17/115b       Emitter     MU17/115b/136       General specifications     Intershold detection range     015 m       Effective detection range     20 m     Light type       Light type     modulated infrared light ,950 nm     Ambient light limit     ≤ 10000 Lux       Indicators/operating means     Operating lighty     LED green     Function display     LED yellow, lights up with receiver lit       Electrical specifications     Operating voltage     Ug     10	reclinical data					
Receiver MV17/115b/136   General specifications U   Effective detection range 0 15 m   Threshold detection range 20 m   Light source IRED   Light type modulated infrared light, 950 nm   Ambient light limit ≤ 10000 Lux   Indicators/operating means U   Operating display LED green   Function display LED yellow, lights up with receiver lit   Electrical specifications max. 10 %   Operating voltage U <sub>B</sub> 1030 V DC, class 2 max. 10 %   No-load supply current I <sub>0</sub> 20 parting voltage u <sub>B</sub> 100 mA max per output 100 mA max per output   Time delay before availability z 200 m   Switching type light/dark on   Signal output 2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overolage protected   Switching requency fu   Availed tupe 100 mA   Voltage drop U <sub>d</sub> Switching frequency fu   400 mart max. 30 V DC   Switching frequency fu   Ambient temperature -2055 °C (-4131 °F)   Storage temperature -2055 °C (-4167 °F)   Met	System components					
General specifications   0 15 m     Effective detection range   0 m     Light source   IRED     Light source   IRED     Light source   IRED     Indicators/operating means   0000 Lux     Operating display   LED green     Function display   LED green     Protection specifications   00m A max per output     Operating current   10 m A max per output     Time delay before availability   ty < 200 ms	Emitter		MD17/115b			
Effective detection range0 15 mThreshold detection range20 mLight sourceIREDLight sourceIREDLight sourceIREDCommon and the sourceIREDDetecting displayLED greenFunction displayLED yellow, lights up with receiver litElectrical specifications $0$ or 30 V DC , class 2Operating voltageUg g10 30 V DC , class 2Ripplemax. 10 %No-load supply current $l_0 < 25 \text{ mA}$ Operating voltageUg g10 30 V DC , class 2Switching typelight/dark onSignal output $l_0 < 25 \text{ mA}$ Switching typelight/dark onSignal output $l_0 < 22 \text{ mA}$ Switching requencyfMotoatagemax. 30 V DCSwitching frequencyfMoting frequencyfMoting frequencyfMoting frequencyfMathent conditionsAmbient temperature-20 55 °C (-4 131 °F)Storage temperature-20 55 °C (-4 131 °F)Storage temperature-20 75 °C (-4 131 °F)Storage temperature-20 75 °C (-4 167 °F)Mechanical specificationsElectrical specificationsProtection degreeIP67Connection150 mm PVC cable with 4-pin, M12 connectorMaterialElectrical specificationsProduct standardEle 60947-5-2:2007Standard conformityEle 60947-5-2:2007Product standard<	Receiver		MV17/115b/136			
Threshold detection range 20 m   Light source IRED   Light type modulated infrared light , 950 nm   Ambient light limit ≤ 10000 Lux   Indicators/operating means    Operating display LED gelow, lights up with receiver lit   Electrical specifications max. 10 %.   Operating voltage Ug   10 30 V DC , class 2   Ripple max. 10 %.   No-load supply current 10 % A   Operating current 100 mA max per output   Time delay before availability t, <	General specifications					
Light source   IFED     Light type   modulated infrared light , 950 nm     Ambient light limit   ≤ 10000 Lux     Indicators/operating means   Iotobal     Operating display   LED green     Function display   LED green     Function display   LED green     Protection specifications   Operating voltage     Operating voltage   Ug   10 30 V DC , class 2     Ripple   max. 10 %     No-load supply current   10 or Max per output     Time delay before availability   t,v   ≤ 200 ms     Output   Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse pola- rity protected, overvoltage protected     Switching voltage   max. 300 mA   Voltage     Switching voltage   max. 100 mA     Voltage drop   Ug   ≤ 2 V DC     Switching requency   f< 150 Hz	Effective detection range		0 15 m			
Light type modulated infrared light , 950 nm Ambient light limit ≤ 10000 Lux Indicators/operating means Operating display LED green Function display LED yellow, lights up with receiver lit Electrical specifications Operating voltage U <sub>B</sub> 10 30 V DC , class 2 Ripple max. 10 % No-load supply current I <sub>0</sub> < 25 mA Operating voltage U <sub>B</sub> ight/dark on Signal output 5 Switching voltage max. 30 VDC Switching voltage max. 30 VDC Switching voltage max. 30 VDC Switching voltage max. 30 VDC Switching requency f 150 Hz Response time ≤ 3 ms Ambient temperature 20 75 °C (-4 131 °F) Storage temperature 20 75 °C (-4 131 °F) Storage temperature 20 75 °C (-4 131 °F) Storage temperature 4D Protection degree IP67 Connection 4D Material Housing ABS Optical face Acrylic Material Housing ABS Optical face Acrylic Standards and directives Standards and directives Standards and conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:	Threshold detection range		20 m			
Ambient light limit $\leq$ 10000 LuxIndicators/operating meansLED greenOperating displayLED gellow, lights up with receiver litElectrical specifications	Light source		IRED			
Indicators/operating means   LED green     Operating display   LED green     Function display   LED yellow, lights up with receiver lit     Electrical specifications   Operating voltage   Ug     No-load supply current   I0   %     Operating voltage   Ug   10 30 V DC, class 2     Ripple   max. 10 %     No-load supply current   10 mA max per output     Time delay before availability   t,v   ≤ 200 ms     Output    2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 30 V DC     Switching requency   f   150 Hz     Response time   < 20 55 °C (-4 131 °F)	Light type		modulated infrared light , 950 nm			
Operating display   LED green     Function display   LED yellow, lights up with receiver lit     Electrical specifications   Operating voltage   UB     Operating voltage   UB   10 30 V DC , class 2     Ripple   max. 10 %     No-load supply current   I0   <25 mA	Ambient light limit		≤ 10000 Lux			
Function display   LED yellow, lights up with receiver lit     Electrical specifications   0	Indicators/operating means					
Electrical specifications   00 max 10 %     Operating voltage   UB   10 30 V DC , class 2     Ripple   max. 10 %     No-load supply current   10     Operating current   100 mA max per output     Time delay before availability   tv   ≤ 200 ms     Output   Switching type   light/dark on     Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 100 mA     Voltage drop   Ud   ≤ 2 V DC     Switching frequency   f   150 Hz     Response time   ≤ 3 ms   Ambient conditions     Ambient conditions   -   20 75 °C (4 131 °F)     Storage temperature   -20 75 °C (4 167 °F)   Mechanical specifications     Protection degree   IP67   Connection   150 mm PVC cable with 4-pin, M12 connector     Material   -   ABS   Optical face   Acrylic     Mass   approx.46 g (emitter and receiver)   Compliance with standards and directives     Product standard   EN 50178, UL 508   EN 50178, UL 508	Operating display		LED green			
Operating voltage $U_B$ 10 30 V DC , class 2Ripplemax. 10 %No-load supply current $I_0$ < 25 mA	Function display		LED yellow, lights up with receiver lit			
Ripple   max. 10 %     No-load supply current   Io     Operating current   100 mA max per output     Time delay before availability   t,     Switching type   light/dark on     Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 30 V DC     Switching requency   f     Switching frequency   f     150 Hz   Response time     Ambient conditions      Ambient conditions   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   IP67     Protection degree   IP67     Compliance with standards and directives   approx. 46 g (emitter and receiver)     Compliance with standards and directives   Standard conformity     Product standard   EN 60947-5-2:2007     IEC 60947-5-2:2007   IEC 60947-5-2:2007     Standard conformity   FN 60947-5-2:2007     Product standard   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   CULus	Electrical specifications					
No-load supply current   I0   < 25 mA	Operating voltage	UB	10 30 V DC , class 2			
Operating current   100 mA max per output     Time delay before availability   t <sub>v</sub> ≤ 200 ms     Output   Switching type     Switching type   light/dark on     Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 100 mA     Voltage drop   U <sub>d</sub> ≤ 2 V DC     Switching frequency   f   150 Hz     Response time   ≤ 3 ms   Ambient conditions     Ambient temperature   -20 55 °C (-4 131 °F)   Storage temperature     Storage temperature   -20 55 °C (-4 167 °F)   Mechanical specifications     Protection degree   IP67   Connection   150 mm PVC cable with 4-pin, M12 connector     Material   ABS   Optical face   Acrylic     Material   Approx. 46 g (emitter and receiver)   Compliance with standards and directives     Victa standard   EN 60947-5-2:2007   IEC 60947-5-2:2007     Standards   EN 50178, UL 508   EN 50178, UL 508     Approval   CULus   CCC approval   Products with a maximum operating voltage of <36 V do not sear a CCC marking b	Ripple	_	max. 10 %			
Time delay before availability   t,   ≤ 200 ms     Output   Switching type   light/dark on     Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 100 mA     Voltage drop   Ud   ≤ 2 V DC     Switching frequency   f   150 Hz     Response time   -20 55 °C (-4 131 °F)     Storage temperature   -20 75 °C (-4 167 °F)     Mechanical specifications   -20 75 °C (-4 167 °F)     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   -     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directives   EN 60947-5-2:2007     Standard conformity   EN 60947-5-2:2007     Product standard   EN 50178, UL 508     Approval   CULus     CCC approval   Products with a maximum operating voltage of <36 V do not peave in approval.	No-load supply current	I <sub>0</sub>	< 25 mA			
Time delay before availability   t,   ≤ 200 ms     Output   Switching type   light/dark on     Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 100 mA     Voltage drop   Ud   ≤ 2 V DC     Switching frequency   f   150 Hz     Response time   -20 55 °C (-4 131 °F)     Storage temperature   -20 75 °C (-4 167 °F)     Mechanical specifications   -20 75 °C (-4 167 °F)     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   -     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directives   EN 60947-5-2:2007     Standard conformity   EN 60947-5-2:2007     Product standard   EN 50178, UL 508     Approval   CULus     CCC approval   Products with a maximum operating voltage of <36 V do not peave in approval.	Operating current		100 mA max per output			
Switching type   light/dark on     Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 100 mA     Voltage drop   Ud   ≤ 2 V DC     Switching frequency   f   150 Hz     Response time   ≤ 3 ms     Ambient conditions      Ambient temperature   -20 55 °C (-4 131 °F)     Storage temperature   -20 55 °C (-4 131 °F)     Storage temperature   -20 55 °C (-4 131 °F)     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   IP67     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directiver   IC 60947-5-2:2007     IEC 60947-5-2:2007   IEC 60947-5-2:2007     IEC 60947-5-2:2007   IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   CULus     CCC approval	Time delay before availability	t <sub>v</sub>				
Signal output   2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected     Switching voltage   max. 30 V DC     Switching current   max. 100 mA     Voltage drop   Ud   ≤ 2 V DC     Switching frequency   f   150 Hz     Response time   ≤ 3 ms     Ambient conditions   -20 55 °C (-4 131 °F)     Ambient temperature   -20 55 °C (-4 167 °F)     Mechanical specifications   -20 75 °C (-4 167 °F)     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   -     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directives   -     Standard conformity   EN 60947-5-2:2007     Product standard   EN 60947-5-2:2007     IEC 60947-5-2:2007   IEC 60947-5-2:2007	Output					
rity protected, overvoltage protectedSwitching voltagemax. 30 V DCSwitching currentmax. 100 mAVoltage dropU_d≤ 2 V DCSwitching frequencyf150 HzResponse time≤ 3 msAmbient conditions-20 55 °C (-4 131 °F)Storage temperature-20 75 °C (-4 167 °F)Mechanical specifications-20 75 °C (-4 167 °F)Protection degreeIP67Connection150 mm PVC cable with 4-pin, M12 connectorMaterialABSOptical faceAcrylicMassapprox. 46 g (emitter and receiver)Standard conformityEN 60947-5-2:2007Product standardEN 60947-5-2:2007StandardsEN 50178, UL 508Approvals and certificatesUL approvalUL approvalcULusCCC approvalProducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per ducts with a maximum operating voltage of ≤36 V do not per d	Switching type		light/dark on			
Switching currentmax. 100 mAVoltage dropUd≤ 2 V DCSwitching frequencyf150 HzResponse time≤ 3 msAmbient conditions	Signal output		2 push-pull (4 in 1)outputs, short-circuit protected, reverse pola- rity protected, overvoltage protected			
Voltage dropUd d≤ 2 V DCSwitching frequencyf150 HzResponse time≤ 3 msAmbient conditions-20 55 °C (-4 131 °F)Ambient temperature-20 55 °C (-4 131 °F)Storage temperature-20 75 °C (-4 167 °F)Mechanical specificationsIP67Protection degreeIP67Connection150 mm PVC cable with 4-pin, M12 connectorMaterialABSOptical faceAcrylicMassapprox. 46 g (emitter and receiver)Compliance with standards and directivesIEN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007 StandardsStandard conformityEN 50178, UL 508Product standardCULusCCC approvalCULusCCC approvalcULusCCC approvalcULus	Switching voltage					
Switching frequencyf150 HzResponse time≤ 3 msAmbient conditionsAmbient temperature-20 55 °C (-4 131 °F)Storage temperature-20 75 °C (-4 167 °F)Mechanical specificationsProtection degreeIP67Connection150 mm PVC cable with 4-pin, M12 connectorMaterialARSOptical faceAcrylicMassapprox. 46 g (emitter and receiver)Standard conformityEN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007StandardsEN 50178, UL 508UL approvalcULusCCC approvalProducts with a maximum operating voltage of <36 V do not bear a CCC marking because they do not require approval.	Switching current		max. 100 mA			
Response time   ≤ 3 ms     Ambient conditions   -20 55 °C (-4 131 °F)     Ambient temperature   -20 75 °C (-4 167 °F)     Storage temperature   -20 75 °C (-4 167 °F)     Mechanical specifications   -20 75 °C (-4 167 °F)     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   -20 46 g (emitter and receiver)     Material   -20 46 g (emitter and receiver)     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directives   -2007     Standard conformity   EN 60947-5-2:2007     Product standard   EN 50178, UL 508     Approvals and certificates   EN 50178, UL 508     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval	Voltage drop	Ud	$\leq$ 2 V DC			
Ambient conditions   -20 55 °C (-4 131 °F)     Ambient temperature   -20 75 °C (-4 167 °F)     Storage temperature   -20 75 °C (-4 167 °F)     Mechanical specifications   IP67     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   Arylic     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Standard conformity   Froduct standard     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   VL approval     UL approval   cULus     Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval	Switching frequency	f	150 Hz			
Ambient temperature   -20 55 °C (-4 131 °F)     Storage temperature   -20 75 °C (-4 167 °F)     Mechanical specifications   IP67     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   Amsion     Housing   Acrylic     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Standard conformity   Froduct standard     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007     standards   EN 50178, UL 508     Ambiend semicificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval	Response time		$\leq$ 3 ms			
Storage temperature   -20 75 °C (-4 167 °F)     Mechanical specifications   IP67     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   ABS     Housing   ACrylic     Mass   approx. 46 g (emitter and receiver)     Mass   approx. 46 g (emitter and receiver)     Standard conformity   EN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007     Nandards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval	Ambient conditions					
Mechanical specifications   IP67     Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   Housing     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directi- ves   Standard conformity     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Ambient temperature		-20 55 °C (-4 131 °F)			
Protection degree   IP67     Connection   150 mm PVC cable with 4-pin, M12 connector     Material   ABS     Housing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Standard conformity   Forduct standards and directilic 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   CCC approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval	Storage temperature		-20 75 °C (-4 167 °F)			
Connection   150 mm PVC cable with 4-pin, M12 connector     Material   ABS     Pousing   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directi- ves   Vertice     Standard conformity   Found to the standard     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Mechanical specifications					
Material   ABS     Optical face   Acrylic     Mass   approx. 46 g (emitter and receiver)     Compliance with standards and directi- ves   Standard receiver)     Standard conformity   Forduct standard     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Protection degree		IP67			
Housing ABS   Optical face Acrylic   Mass approx. 46 g (emitter and receiver)   Compliance with standards and directivers   Standard conformity   Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007   Standards EN 50178, UL 508   Approvals and certificates   UL approval cULus   CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Connection		150 mm PVC cable with 4-pin, M12 connector			
Optical faceAcrylicMassapprox. 46 g (emitter and receiver)Compliance with standards and directi- vesStandard receiver)Standard conformityStandard conformityProduct standardEN 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007StandardsEN 50178, UL 508Approvals and certificatesCULusUL approvalcULusCCC approvalProducts with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Material					
Mass approx. 46 g (emitter and receiver)   Compliance with standards and directives   Standard conformity   Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007   Standards EN 50178, UL 508   Approvals and certificates UL approval   UL approval cULus   CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Housing		ABS			
Compliance with standards and directives     Standard conformity     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	-		Acrylic			
ves     Standard conformity     Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Mass		approx. 46 g (emitter and receiver)			
Product standard   EN 60947-5-2:2007 IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates   UL approval     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	•					
IEC 60947-5-2:2007     Standards   EN 50178, UL 508     Approvals and certificates     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Standard conformity					
Approvals and certificates     UL approval   cULus     CCC approval   Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Product standard					
UL approval cULus CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Standards		EN 50178, UL 508			
CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	Approvals and certificates					
bear a CCC marking because they do not require approval.	UL approval		cULus			
Curves/Diagrams	CCC approval					



## Accessories

OMH-ML17-EZ Mounting bracket

OMH-ML17 Mounting bracket

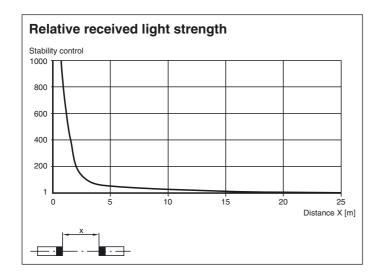
OMH-ML17-1 Mounting bracket

V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR Cable socket, M12, 4-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com





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