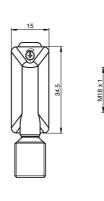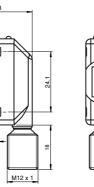## Model Number

ML17-6/73/136

Retroreflective sensor
with 4-pin, M12 x 1 connector

Features

- Compact series in universal housing for standard applications
- Miniature design
- Front mounting with M18-threads or side mounting holes
- 360° high visibility LEDs
- Time-saving mounting with quick clamp system
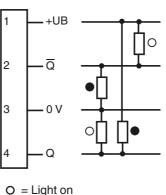- Long-range nonpolarized model
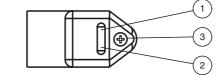- 4-in-1 output (push-pull)

Dimensions

Electrical connection

○ = Light on
● = Dark on

Pinout

Indicators/operating means

1	Signal display	yellow
2	Operating display	green
3	Sensitivity adjustment	

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

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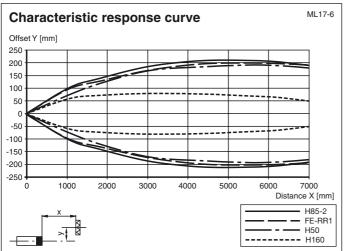Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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SENSING YOUR NEEDS

1

Technical data

General specifications

Effective detection range	0 ... 6.5 m
Reflector distance	50 ... 6500 mm
Reference target	FE-RR1 reflector
Light source	LED
Light type	modulated visible red light , 626 nm
Polarization filter	no
Ambient light limit	≤ 10000 Lux

Indicators/operating means

Operation indicator	LED green
Function indicator	LED yellow, lights up with receiver lit
Control elements	sensitivity adjustment

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC , class 2
Ripple		max. 10 %
No-load supply current	I_0	< 25 mA
Operating current		100 mA max per output
Time delay before availability	t_v	≤ 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	U_d	≤ 2 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms

Ambient conditions

Ambient temperature	-20 ... 55 °C (-4 ... 131 °F)
Storage temperature	-20 ... 75 °C (-4 ... 167 °F)

Mechanical specifications

Degree of protection	IP67
Connection	4-pin, M12 x 1 connector
Material	
Housing	ABS
Optical face	Acrylic
Mass	approx. 8.5 g

Compliance with standards and directives

Standard conformity	
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval	cULus
CCC approval	CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

Characteristic response curve

ML17-6

Accessories

OMH-ML17-EZ
Mounting bracket

OMH-ML17
Mounting bracket

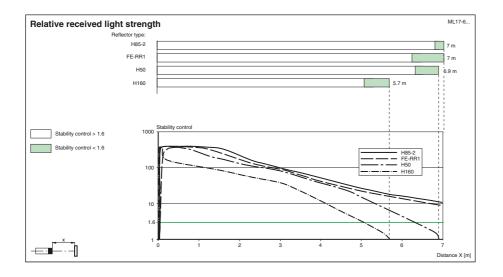**OMH-ML17-1**
Mounting bracket

V1-G-2M-PUR
Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR
Female cordset, M12, 4-pin, PUR cable

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

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Relative received light strength

ML17-6...

Reflector type:

H85-2		7 m
FE-RR1		7 m
H50		6.9 m
H160		5.7 m

Stability control > 1.6

Stability control < 1.6

Stability control

H85-2
FE-RR1
H50
H160

1000
100
10
1.6
1

0   1   2   3   4   5   6   7

Distance X [m]

x

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

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