Thru-beam sensor



CE

Model Number

ML29-2P/25/103/143

Thru-beam sensor

4-pin plastic connector, 6.5 mm diameter

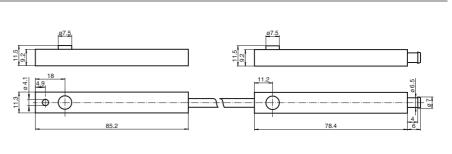
Features

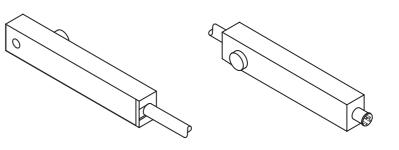
- Single-beam monitoring with • extremely narrow sensor
- Integrated circuit ٠
- Test •
- Simple installation Plug & Play •
- Ideal for installation in door profiles or ٠ frames
- Dual-beam version master/slave for • dual-beam protection of closing edges

Product information

The narrow miniature thru-beam sensors are a small and cost-effective solution, fitting in virtually any door frame. The ML29 and ML30 series offer fast, reliable detection at a distance of up to 8.5 m. The sensors are easy to mount on the profile, either using adhesive strips or a screw. A large opening angle ensures problem-free alignment. Several sensors can be mounted in a cross formation to offer multi-beam protection.

Dimensions





Electrical connection

see Description

Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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Technical data			Typica	
General specifications			Perso	
Effective detection range		0 5 m	gates	
Threshold detection range		7 m	 Glosin 	
Light source		IRED	revolv	
Light type		modulated infrared light	Thres	
Angle of divergence		+/- 8 °	Step r	
Optical face		lateral	transp	
Ambient light limit		40000 Lux	Trigge	
Functional safety related paran	neters			
MTTF _d		880 a	Detect	
Mission Time (T _M)		20 a	201001	
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Function indicator		LED red in receiver : lights up when receiving the light beam		
Electrical specifications				
Operating voltage	UB	11 30 V DC		
No-load supply current	I ₀	\leq 35 mA per device	1	
Input				
Test input		Test: emitter deactivation at 0 V		
Output				
Switching type		light on	1	
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, open collector	l	
Switching voltage		max. 30 V DC	1	
Switching current		max. 0.1 A	I	
Switching frequency	f	50 Hz	1	
Response time		10 ms	1	
Conformity			1	
Product standard		EN 60947-5-2	1	
Ambient conditions				
Ambient temperature		-20 60 °C (-4 140 °F)	Access	
Storage temperature		-20 75 °C (-4 167 °F)	ML29 K	
Relative humidity		90 % , noncondensing	Female	
Mechanical specifications			series se	
Degree of protection		IP65	301103 30	
Connection		4-pin plastic connector, 6.5 mm diameter	ML29 F	
Material			Front pla	
Housing		Transmitter: PMMA black / Receiver: red PMMA	series M	
Optical face Mass		Plastic pane		
		555 g	ML29 K	
Compliance with standards and directives	1		Female series se	
Standard conformity				
Standards		EN 61000-6-2, EN 61000-6-3	Other sui	
Approvals and certificates			www.pep	
		000 - and the set of t		

CCC approval

Function principle

The thru-beam sensor requires a pair of devices for operation, comprising a light transmitter and a light receiver. The emitter and receiver must be arranged in optical alignment with each other. The infrared light from the emitter is detected by the receiver and evaluated.

Description

al applications

- on detection for automatic doors and
- ing edge protection on sliding and lving doors
- shold monitoring for elevator doors monitoring for doors on public sport vehicles
- er function for restarting escalators

tion area



sories

Kupplungsdose 6m 4polig cordset with 6 m cable for ML29 sensors

Front Plate

late for thru-beam sensors in **ML29**

Kupplungsdose 3m 4polig

cordset with 3 m cable for ML29 sensors

uitable accessories can be found at epperl-fuchs.com

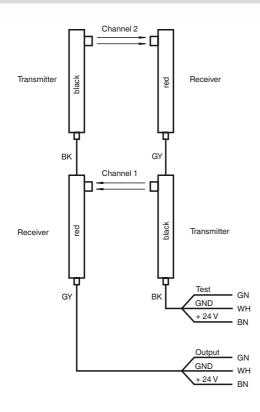
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CCC approval / marking not required for products rated ≤36 V

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