



Thru-beam sensor ML29-2P/25/103/143



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

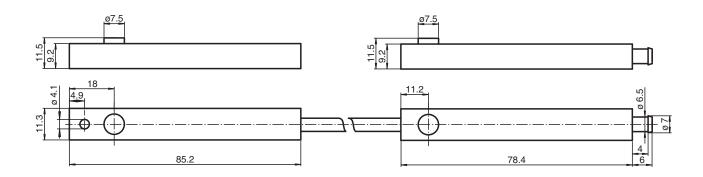
Single-beam miniature sensor, ideal for installing in frames or door profiles

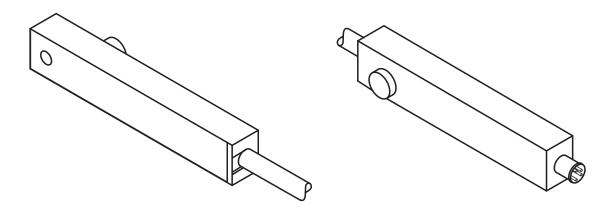


Function

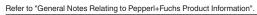
The narrow miniature thru-beam sensors are a small and cost-effective solution, fitting in virtually any door frame. The ML29 and ML30 series offer fast, reliable detection at a distance of up to 8.5 m. The sensors are easy to mount on the profile, either using adhesive strips or a screw. A large opening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

Dimensions

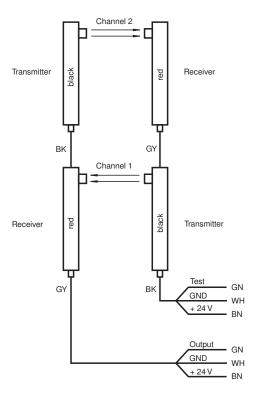




Technical Data **General specifications** Effective detection range 0 ... 5 m Threshold detection range 7 m Light source **IRED** Light type modulated infrared light +/- 8 ° Angle of divergence Optical face lateral Ambient light limit 40000 Lux Functional safety related parameters 880 a MTTF_d Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Function indicator LED red in receiver: lights up when receiving the light beam **Electrical specifications** Operating voltage U_{B} 11 ... 30 V DC ≤ 35 mA per device No-load supply current I_0 Input Test input Test: emitter deactivation at 0 V Output Switching type light-on Signal output 1 PNP output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC Switching current max. 0.1 A 50 Hz Switching frequency f Response time 10 ms Conformity Product standard EN 60947-5-2 Compliance with standards and directives Standard conformity Standards EN 61000-6-2, EN 61000-6-3 Approvals and certificates CCC approval CCC approval / marking not required for products rated ≤36 V **Ambient conditions** -20 ... 60 °C (-4 ... 140 °F) Ambient temperature -20 ... 75 °C (-4 ... 167 °F) Storage temperature Relative humidity 90 %, noncondensing **Mechanical specifications** Degree of protection IP65 Connection 4-pin plastic connector, 6.5 mm diameter Material Transmitter: PMMA black / Receiver: red PMMA Housing Optical face Plastic pane Mass 555 g



Connection



Application





ML29 Kupplungsdose 6m 4polig

Female cordset with 6 m cable for ML29 series sensors

ML29 Front Plate

Front plate for thru-beam sensors in series ML29





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Accessories

Accessories



ML29 Kupplungsdose 3m 4polig Female cordset with 3 m cable for ML29 series sensors

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.

Application

- · Person detection for automatic doors and gates
- · Closing edge protection on sliding and revolving doors
- · Threshold monitoring for elevator doors
- · Step monitoring for doors on public transport vehicles
- · Trigger function for restarting escalators