



Model Number

PSE4-RUB-30EPDM58-05

Sensor strip for safety edges from the PSE4 series

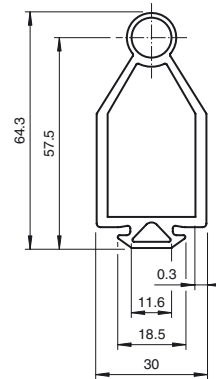
Features

- Rubber profile
- For mounting to ALU mounting strip PSE4-ALU
- Simple to customize to application
- Component of PSE4 modular system

Application

In its entirety, the PSE4 safety edge system consists of the control interface, sensors, a rubber sensor strip, and an optional aluminum mounting strip. The system can be used within a temperature range of 5 °C to 55 °C. The control interface analyzes the signal from the sensors and is designed to be installed in a switch cabinet. The safety contact of the control interface is released by actuating the safety edge. The system as a whole can be used in applications up to Cat. 4/PL e as defined in EN ISO 13849-1.

Dimensions



Technical data

General specifications

Length 50 m

Ambient conditions

Ambient temperature 5 ... 55 °C (41 ... 131 °F)
 Environmental resistance Excellent

Mechanical specifications

Material EPDM (ethylene propylene diene rubber)
 Mass approx. 570 g / m

Notes

The modular PSE system comprises the following components:

PSE4-SL safety thru-beam sensors:

The plug electronics are fully encapsulated in the housing to achieve a high level of resistance to environmental influences such as water, dust, and moisture. Degree of protection IP68 is achieved.

Rubber profiles PSE4-RUB and PSE4-ROI:

The rubber profile is designed as a double-chamber profile. The emitter and receiver are inserted in the round hollow chamber at the top. When the profile is actuated, the optical channel is interrupted and the enable circuits on the control unit open. When actuated near the end, the emitter and/or receiver dip into the lower chamber. This ensures that the beam of light is broken. However, the forces required are high, meaning the end areas are inactive areas in line with EN 1760-2.

PSE safety control units:

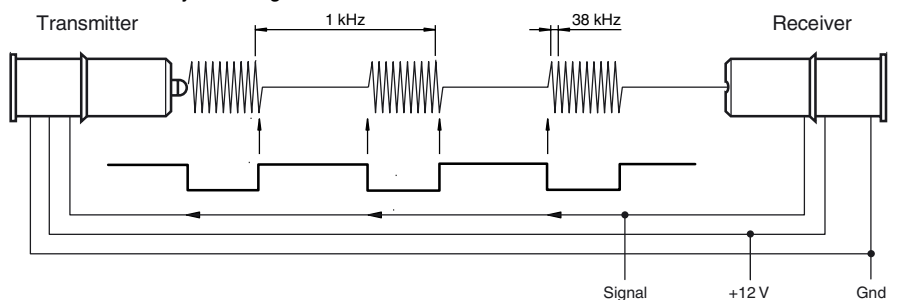
Controller for the emitter/receiver system.

PSE4-ALU aluminum rails:

The aluminum rails are available in various lengths and can be used as an option.

Functional Principle

The emitter transmits pulses of infrared light, which are detected by the receiver. When the emitter light is detected, the receiver turns off the emitter via a control input. The "luminous flux" stops. The receiver also detects this status and the emitter is then switched on again after a specified time. This coupling produces a dynamic signal that is conveyed, in principle, to a charge pump. The pump's charge state is analyzed in the evaluation. Any errors in the emitter/receiver system affect the optical or electrical signal, which results in the absence of a dynamic signal.



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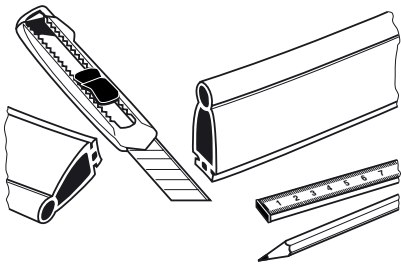
Note:

Safety edges must be fully installed to comply with the EC-Type Examination Certificate for the PSE4 series.

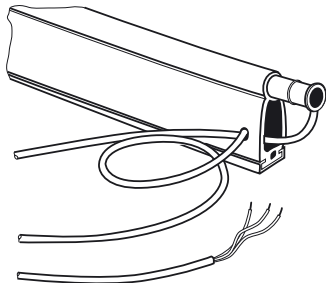
Possible combinations

	PSE4-ALU-*	PSE4-ALU-3009-*	PSE4-ROI-*	PSE4-RUB-*	PSE4-RUB-30EPDM58-*	PSE2-SC-*	PSE4-SC-*	PSE4-SL-*
PSE4-ALU-*			X	X	-	X	X	X
PSE4-ALU-3009-*			-	-	X	X	X	X
PSE4-ROI-*	X	-				X	X	X
PSE4-RUB-*	X	-				X	X	X
PSE4-RUB-30EPDM58-*	-	X				X	X	X
PSE2-SC-*	X	X	X	X	X			X
PSE4-SC-*	X	X	X	X	X			X
PSE4-SL-*	X	X	X	X	X	X	X	

Mounting or replacing the sensors



Sensor strip PSE4-RUB-XX or PSE4-ROI-XX and accompanying aluminum mounting strip
Cut PSE4-ALU-XX to the required length.



Slide the emitter and receiver into the upper chamber.
Guide the emitter cable through the lower chamber to the receiver side.