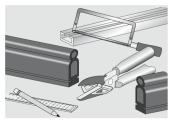
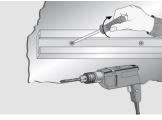
# Series SE Safety Edges



# Installation



Cut the mounting rail and rubber profile to desired length.



Secure the mounting rail



Slide the rubber profile into the mounting rail.



Plug the SE-SET transmitter and receiver into the round channel at each end. Wire to a safety controller. Finish with end caps.

# **Overview**

The series SE Safety Edge consists of a rugged high tear resistant rubber profile, an aluminum mounting rail, a plug-in optoelectronic transmitter receiver pair, and a compatible safety controller. The design features a high reflective internal rubber surface and a self-adjusting gain optical pair whose performance is consistent over the specified operating range.

Units can be quickly and easily assembled (without special skills or use of adhesives) for lengths of 400 mm to 10 m. The self-adjusting optical pair assure the same sensitivity and performance independent of chosen length.

The mechanical design assures encapsulation of the transmitter and receiver ensuring reliable operation unaffected by environmental soiling.

In operation the transmitted IR beam is detected, by the receiver resulting in enabling of the safety controllers safety output(s). Deformation of the rubber profile interrupts/weakens the signal between the transmitter and receiver.

This is sensed by the safety controller disabling the outputs allowing the hazardous movement to be stopped.

Depending upon the choice of safety controller the system meets the requirements of ISO 13849 (PLc, PLd or PLe) as well as ISO 13856-2 for the general principles for the design and testing of pressure-sensitive edges.



# **Product Extension**

In addition to the SE-SET safety edge, Schmersal is also able to offer the STW-SL safety edge for custom angles including  $90^{\circ}$  and safety bumpers for large applications such as the SSG-SBL or ASB, available with custom lengths and heights.



# **Applications**

Ideal wherever crushing or shearing points are to be safeguarded:

- Guard doors
- Elevating platforms
- Rising stages
- Moving stock shelving
- Operating process tables
- Loading ramps
- Hoists or tipping equipment
- CNC doors

# SE-P①②-③

**Ordering Details** 

# Rubber Profile

Profile Coatingblank UncoatedC Coated

② Profile Height

40 40mm (EPDM rubber) 40NBR 40mm (NBR rubber) 70 70mm (EPDM rubber)

3 Profile Length

1250 1,250mm 2500 2,500mm 5000 5,000mm 10000 10,000mm

### Aluminum Rail (1250mm)

### SE-AL ① ②-1250

① Rubber Profile Opening1 For SE-40

2 For SE-70

② Mounting Flange

0 Without flange2 With flange

### **Emitter / Receiver Set**

### SE-SET①

© Emitter / Receiver Cable Length blank 6.5m / 3.0m 3M/10.5M 10.5m / 3.0m 10.5M/20M 10.5m / 20.0m

# **SE Safety Controller**

# SE-①-C

Monitoring Capability

100 1 SE-SET to PLc 304 Up to 4 SE-SETs to PLd 400 1 SE-SET to PLe

# **Accessories**

# **End Caps**

 SE-T40
 (For SE-P40)

 SE-TC40
 (For SE-PC40)

 SE-T70
 (For SE-P70)

 SE-TC70
 (For SE-PC70)

SE-J2 Junction Box SE-WA Wring Tool SE-SC Rubber Scissors SE-CC Spiral Cable

# **Contact**

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# **Available Literature**



GK-1 Full Product Catalog Section 3