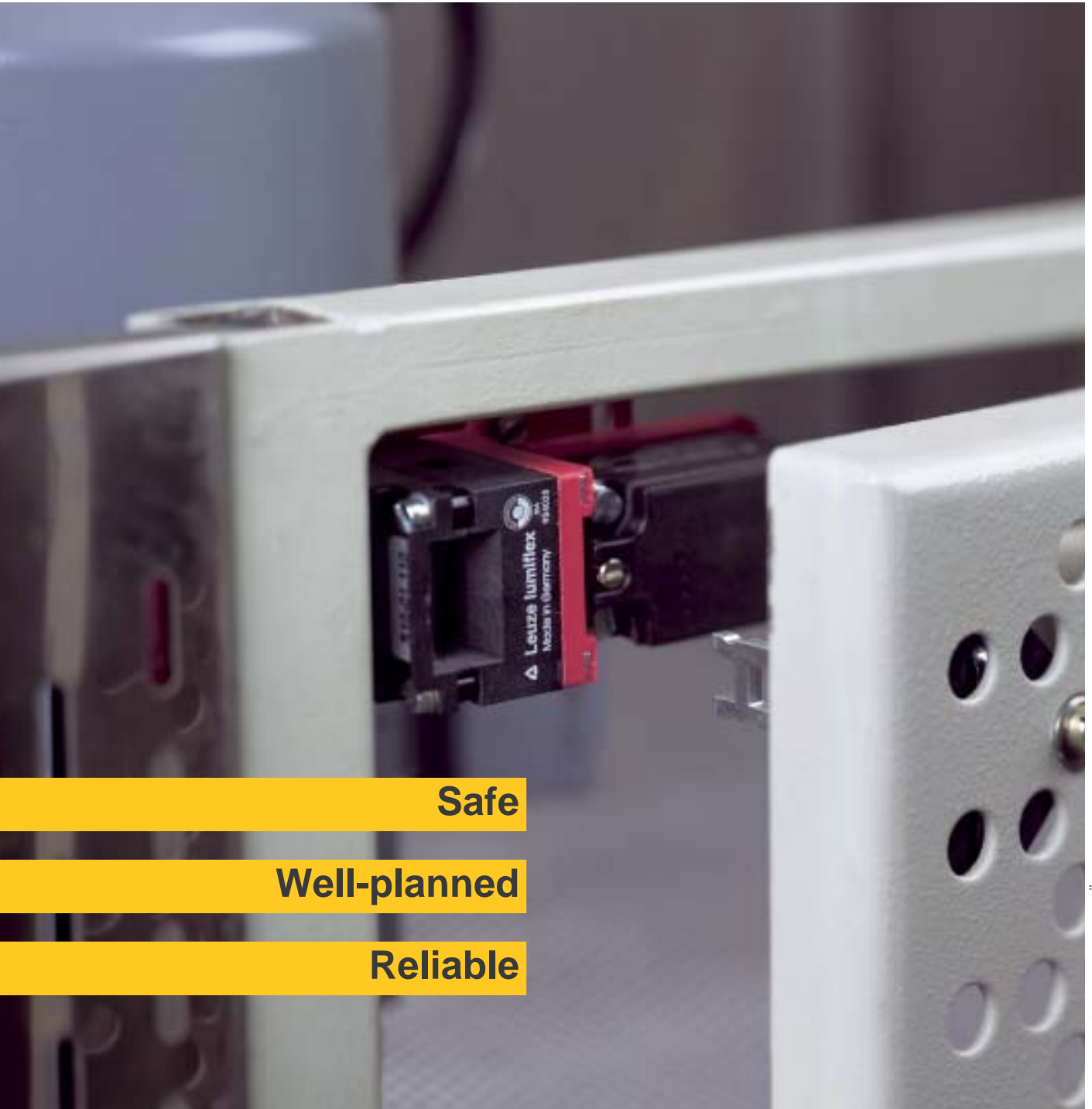


## S10, S40, L30, L50, B

Safety Guard Interlocks with and without Guard Locking



**Safe**

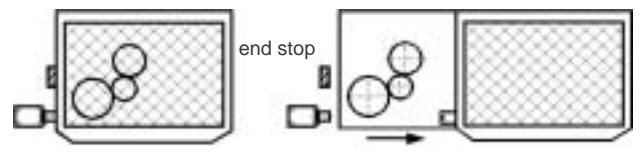
**Well-planned**

**Reliable**



## Safety Guard Interlocks without Guard Locking Series S10 and S40

Guard interlocks without guard locking are used to monitor moving, separating protective devices such as protective doors, removable gratings or flaps. When the protective devices are opened, they break an electric circuit and an Emergency-Stop command is triggered. Guard interlocks without guard locking can be implemented whenever the dangerous movement has come to a standstill before the person entering can reach the danger point.



### Safety Guard Interlock without Guard Locking Series S10

The Series S10 guard interlocks without guard locking have a housing made of fiberglass-reinforced plastic with an enclosure rating of IP 67. Equipped with different contact units, the various versions allow the integration into technical controls in accordance with Safety Category 1 to 4 as specified by EN 954-1. The deflection head, which can be swivelled by 4 x 90°, enables universal use.

#### Features, Series S10:

- BG and UL approval (EN 1088, IEC 947, DIN VDE 0660)
- compact design, 40 mm mounting possible
- 4 approach directions possible
- auto-centering due to funnel-shaped insertion opening
- contact units suitable for integration from Category 1 to 4

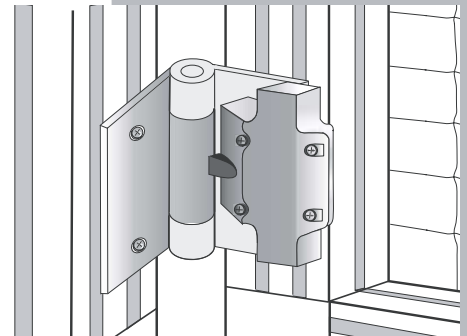


### Safety Guard Interlock without Guard Locking Series S40, two-in-one

The Series S40 guard interlocks without guard locking combine the functions of a safety interlock and a door hinge in a single component. The hinge is particularly suited for mounting to 40 mm aluminum profiles, but can also be mounted to square pipes or machine cover panels. A second, identical hinge for door mounting is also included in the scope of delivery.

#### Features, Series S40:

- BG and UL approval (EN 1088, IEC 947, DIN VDE 0660)
- easy, quick mounting
- contact units suitable for integration from Category 1 to 4
- screw terminal or plug-in connection





## Safety Guard Interlocks with Guard Locking, Series L30 and L50

Safety guard interlocks with guard locking keep the protective device locked until there is no longer any danger posed by the safeguarded machine. These are implemented whenever the machine lag time is longer than the time required for a person entering to access the machine.

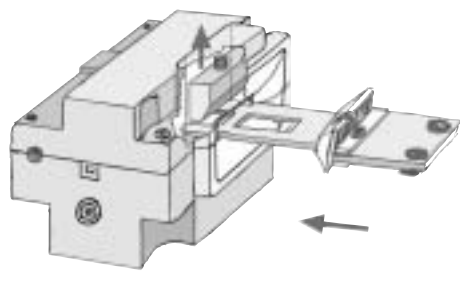
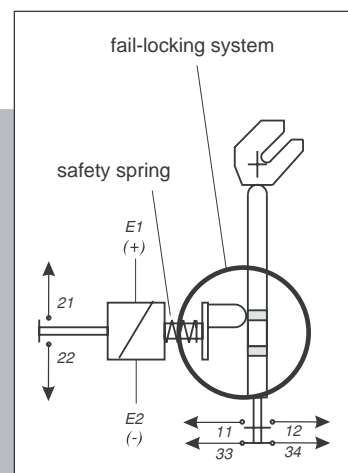
### Safety Guard Interlock with Guard Locking, Series L30 Minimum size – maximum function

Due to their slim and narrow design, the L30 Series is particularly well-suited for use on revolving doors and fencing made of commercial aluminum profile. An additional increase in safety is achieved by the mechanism for preventing unwanted closing. A constructive feature ensures that the locking function does not take effect until the protective door is closed. This makes it impossible to lock when the protective device is open. With the contact unit, the locking mechanisms can be integrated in compliance with safety standards up to Category 4 in accordance with EN 954-1.

The spring power-operated versions L30-F/.. are suited for tasks with a personnel protection function. The magnet power-operated L30-M/.. interlocks, on the other hand, prevent the unauthorized opening of covers during the production process and thus serve the purpose of machine protection.

#### Features, Series L30:

- BG and UL approval (EN 1088, IEC 947, DIN VDE 0660)
- slim, narrow design (45 mm width)
- universally usable due to 4 approach directions
- funnel-shaped insertion opening with dust-proof flap
- safety mechanism for preventing unwanted closing, contact unit up to Category 4
- auxiliary unlocking function with a triangular wrench
- spring power-operated version L30-F/.. for personnel protection
- magnet power-operated version L30-M/.. for machine protection





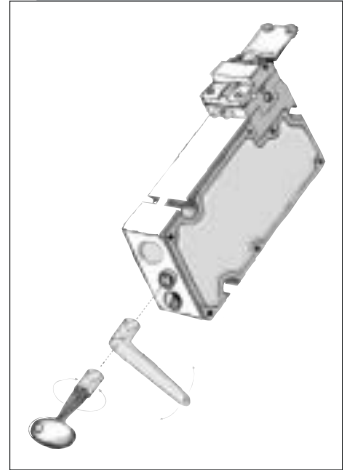
## Safety Guard Interlock with Guard Locking, Series L50 for use under extreme ambient conditions

The Series L50 safety interlocks with guard locking are able to withstand even hostile ambient conditions. External mounting drill holes and a special sealing provide the housing an enclosure rating that surpasses IP 67. The sealing and housing are oil- and gasoline-resistant and can also withstand the effects of aggressive cooling agents. A deflection head, which can be shifted by  $3 \times 90^\circ$ , enables universal implementation. Like Series L30, the Series L50 safety interlocks are also equipped with a safety mechanism for preventing unwanted closing.

With the contact unit, the locking mechanisms can be integrated in compliance with safety interlocks up to Category 4 in accordance with EN 954-1. The heavy-duty safety interlocks with guard locking of Series L50 are available in the spring power-operated version L50-F/.. for personnel protection and in the magnet power-operated version L50-M/.. for machine protection.

### Features, Series L50:

- BG and UL approval (EN 1088, IEC 947, DIN VDE 0660)
- heavy-duty construction, suited for use under hostile ambient conditions
- universally usable due to 3 approach directions
- safety mechanism for preventing unwanted closing, contact unit up to Category 4
- auxiliary unlocking function with a triangular wrench
- spring power-operated version L50-F/.. for personnel protection
- magnet power-operated version L50-M/.. for machine protection



## Protective Door Bolts Series BL and BS

The protective door bolts Series BL and BS are accessories to Leuze lumiflex safety guard interlocks with and without guard locking. They serve as prefabricated mounting brackets, sparing the user from having to undertake his own mechanical adaptive measures. In addition, they act as a mechanical end-stop to protect the interlocking devices from damage. Protective door bolts also make a contribution to system safety. Since the bolts must be put into place deliberately, they prevent an unwanted resumption of the dangerous movement that could be caused if the protective device is accidentally closed. In passable danger zones, service personnel can protect themselves by attaching a padlock to prevent the system from being inadvertently started by a third party. The Series BL bolts are constructed as bent-plate parts, while the Series BS bolts are made of 8 mm flat-bar steel with plastic guiding.



### Features, Protective Door Bolts, Series B:

- facilitate the attachment of safety guard interlocks
- easy to mount on aluminum profiles, square pipes and cover panels
- universally usable for right- or left-closing protective doors
- provide protection to the interlocking devices by means of mechanical end-stop function
- prevent unwanted machine starts caused by accidental closing
- suitable for use with Series S10 and Series L50 guard interlocks