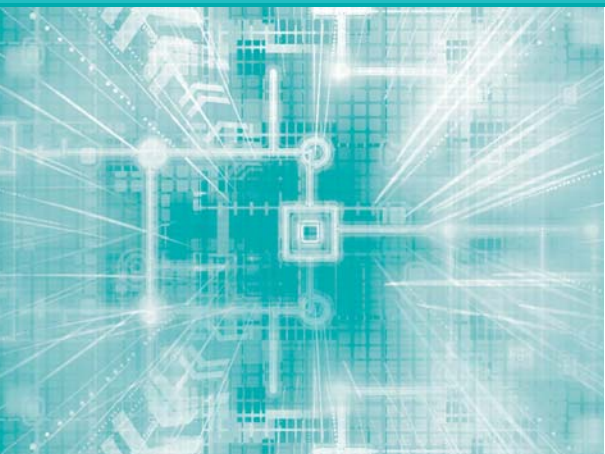


Complies with EK TuT recommendations



SAFETY LIGHT CURTAINS LIGI for Doors and Gates

Sold only through the trade



WITT[®]
Sensoric

optoelectronic systems

Operating Gates Safely

The LIGI passed the EC type test conducted by TÜV Nord according to the following standards:

- EN 12978
- EN ISO 13849, Cat. 2, PLd
- IEC 61496-2
- EN 12445 Chap. 7
- EN 12453 Chap. 5.5.1

C+D and E device without reservation and has been certified accordingly.

Standard aperture

The LIGI conform to all the requirements of EN 12978, also including the maximum $\pm 5^\circ$ transmitter and receiver apertures specified in section 4.3.3.

Enhanced requirements

The TÜV testing organisation set out a hazard scenario which was to be safely detected by the light curtain. The gate is stopped at a residual opening of slightly over 50mm. If the test body B (\varnothing 50mm) then intrudes into the remaining protection field in that position, the light curtain must detect it as an obstacle.

Moreover, the Automatic Door and Gate Systems Forum "EK TuT" which met on 29 October 2013 in Nuremberg set out a further safety proposal for light curtains acting as a safety device on door systems, namely that the standard range for detection of the test body B (\varnothing 50mm) should be increased from 300mm above the ground to 500mm.

The LIGI complies these enhanced requirements

Intelligent functions - easy installation

The specified $\pm 5^\circ$ safety aperture poses no problem when it comes to installing the LIGI.

Mechanical adjuster clamps are provided for the purpose, together with a software programmable adjustment mode. In this mode the strength of reception of the optical signal is indicated by changes in the flashing frequency of an LED. The best signal reception - meaning that the transmitter and receiver are perfectly aligned - is attained when the LED flashing frequency is the highest. At that point simply tighten the clamp and the adjustment procedure is complete.

Maximum operational reliability

The mechanical construction of the LIGI, a aluminium profile fully filled with epoxy resin and high-grade connector, is extremely robust in line with the tough environmental demands imposed on gate systems.

The LIGI is highly insensitive against ambient light, even direct sunlight does not impair its functionality.

The LIGI is also resistant to electromagnetic interference such as can occur in door drives that use low-frequency inverters.

A high rate of variant diversity

The rate of product variants is very high. Various combinations of protection field height, beam geometry, semiconductor output variants or the OSE output are available for direct connection to the closing-edge inputs of most door controllers.

Retrofitting older gate systems / Compliance with ASR A 1.7

The safety light curtain is ideal for upgrading or retrofitting door systems which cannot comply with the specified maximum closing forces.

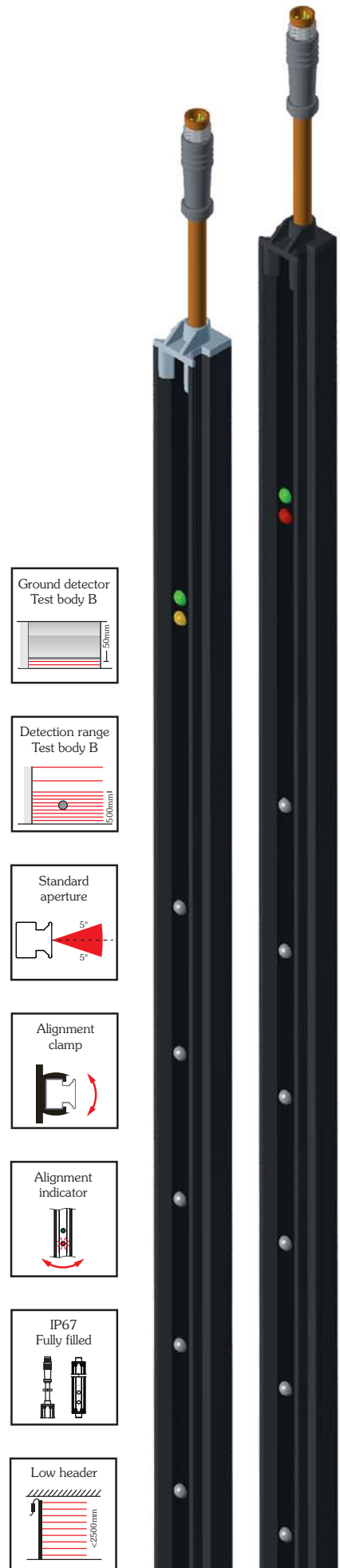
Special design for low doors

For doors where the LIGI cannot be fully installed, such as in underground parking garages (monitoring also in the header area), Witt Sensoric GmbH offers a variant with separated electronics.

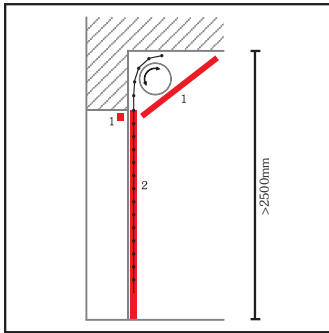
Even if the height is less than 2500 mm, this enables the full height of the door to be monitored without any gaps in the protection field.

Features of the LIGI light curtain

- EC type tested by TÜV Nord
- Standard $\pm 5^\circ$ aperture
- Conforms to testing organisations' safety recommendations
- Can be installed directly in the door opening instead of plane of door movement
- Adjustable mounting clamps, electronic alignment indicator for easy perfect alignment
- Easy to service thanks to status and diagnostic indicators
- Door widths up to 10m are easily implemented
- Direct connection to almost all door controllers
- High rate of variants, including for low door systems
- High degree of protection IP67, fully filled with epoxy resin
- Small housing dimensions of just 16x16mm

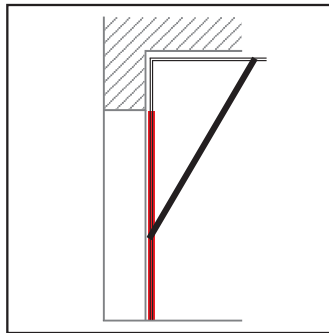


Roller shutter doors



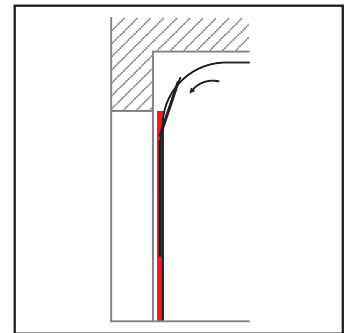
Protection of the door opening and retraction points

Swing doors



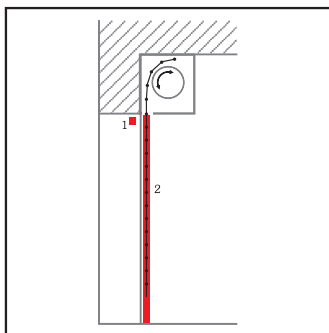
Installation in door opening

Sectional doors



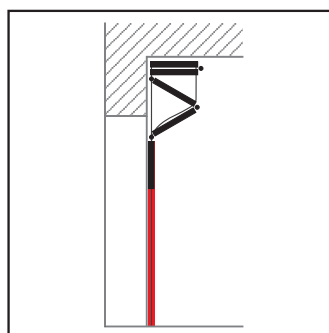
Protection of the main closing edge for door panels up to 80 mm wide

Roller shutter doors



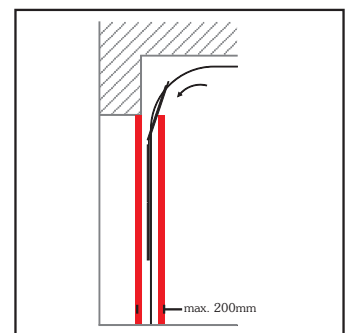
Installation in door frame

Lifting shutter doors



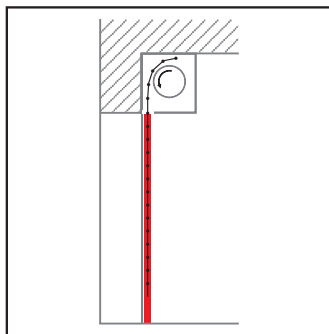
Protection of the closure movement by installation in the door frame

Sectional doors



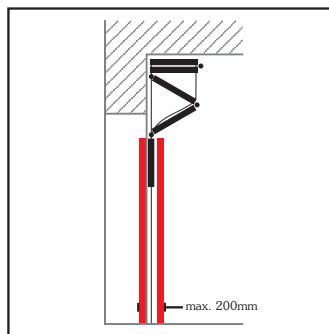
Installation in front of and behind the door panel, e.g. with low thresholds up to 160 mm width

Roller shutter/fast-moving doors



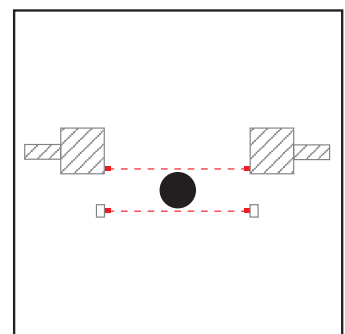
Protection of the main closing edge by installation in the door frame

Lifting shutter doors



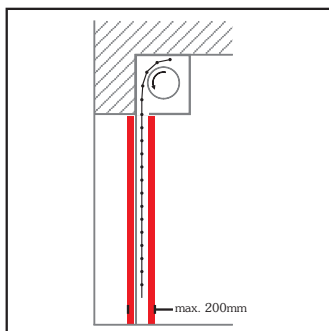
Installation in front of and behind the door panel if installation in the door frame is not possible

Bollards



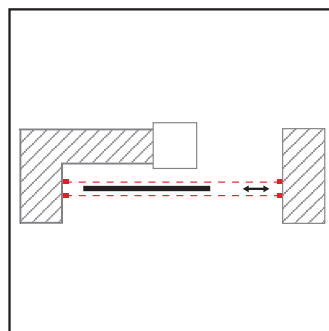
Danger zone due to rising bollards protected

Roller shutter/fast-moving doors



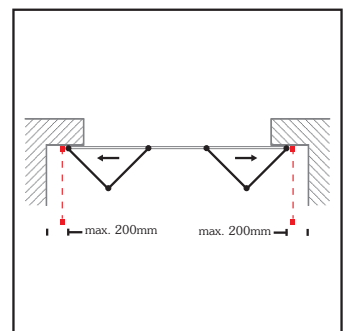
Installation in front of and behind the door curtain

Sliding doors



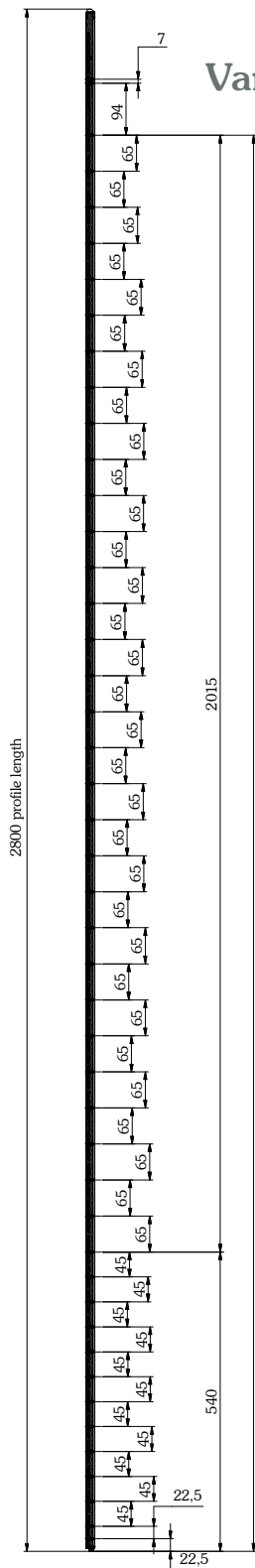
Protection at the danger points

Folding doors



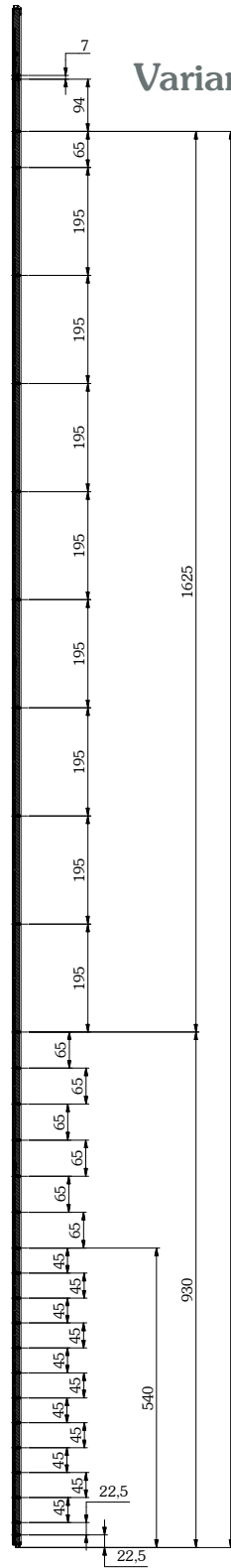
Protection at the crush points

Channel selection



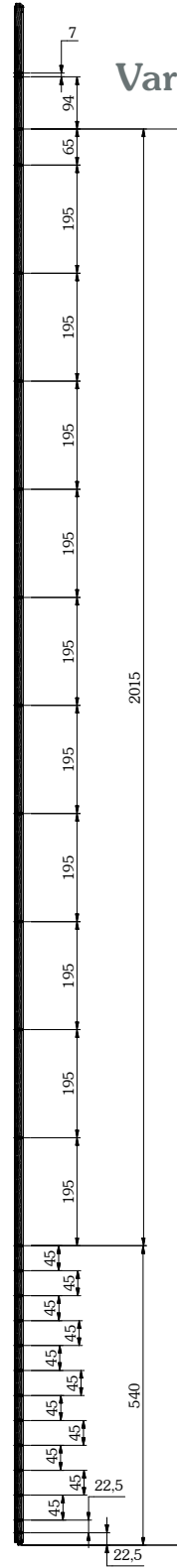
Variant A

2555mm active protective field, 44 channels



Variant B

2555mm active protective field, 28 channels



Variant C

2555mm active protective field, 24 channels



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