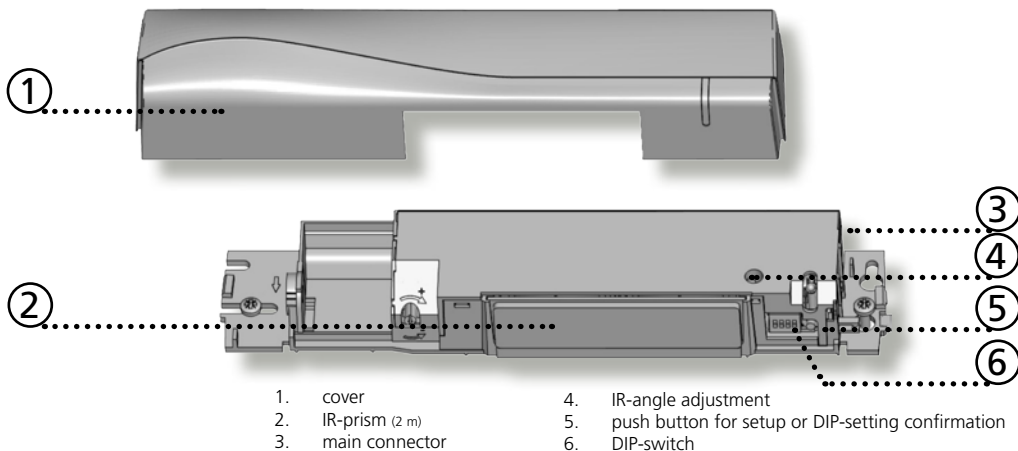




# VIO-ST SIDE SCREEN

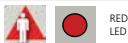
Side screen safety sensor  
for automatic sliding doors

## DESCRIPTION



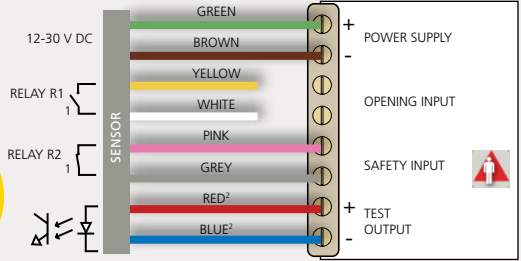
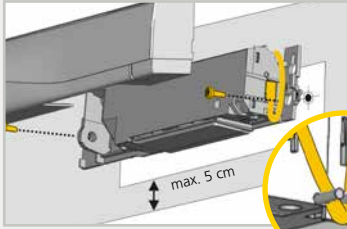
## TECHNICAL SPECIFICATIONS

Supply voltage:	12 V - 30 V DC -5%/+10% (to be operated from SELV compatible power supplies only)
Power consumption:	< 1.6 W
Mounting height:	1.8 m to 3 m
Sensitivity of the test input:	< 1 V : Log. L; > 10 V: Log. H (max. 30 V)
Temperature range:	-25 °C to +55 °C
Degree of protection:	IP54
Noise:	< 70 dB
Expected lifetime:	20 years
Norm conformity:	EN 62061 SIL2; EN 61496-1 ESPE Type 2; EN 61000-6-2; EN 61000-6-3; EN 12978; EN 50581; EN 16005; EN ISO 13849-1 PL «C» CAT.2 (under the condition that the door control system monitors the sensor at least once per door cycle)



Detection mode:	Presence Typical response time: <256 ms
Technology:	Active infrared with background analysis Spot diameter: 0.1 m (typ) Number of spots: max. 24 per curtain Number of curtains: 1
Angle:	From -4 ° to +4 ° (adjustable)
Output:	Solid-state-relay (free of potential, free of polarity) Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC
Hold time output signal:	0.3 s to 1 s (not adjustable)
Response time on test request:	Typical: < 5 ms

# 1 MOUNTING & WIRING



The door control unit and the door cover profile must be correctly earthed.

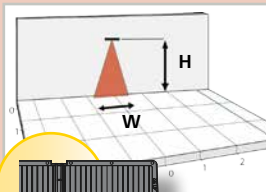
<sup>1</sup> Output status when sensor is operational

<sup>2</sup> For compliance with EN 16005, connection to door controller test output is required.

# 2 INFRARED FIELD - SAFETY



WIDTH

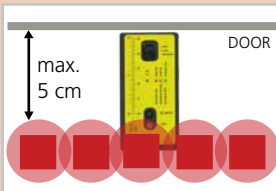


1 m

H	W
2.20 m	1.20 m
2.50 m	1.40 m
3.00 m	1.60 m

Detection field width indicated according to conditions defined in EN 16005 and including dimension of test body CA.

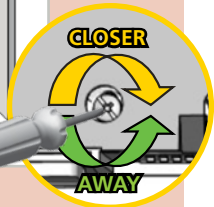
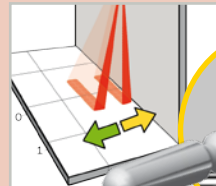
ANGLE



Check position of IR-curtain with Spotfinder and adjust if necessary.

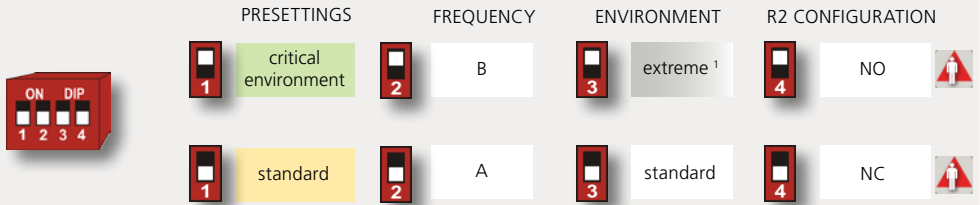


@ 2.2 m:  
Depth of curtain : 8-10 cm



The size of the detection field varies according to the mounting height of the sensor.

### 3 SETTINGS (by DIP-switch)



<sup>1</sup> Enhanced IR-immunity which excludes EN 16005-conformity of the door system.

**standard:** standard environments (factory setting)

**critical environment:** enhanced immunity for critical environments (rain, snow, lamps...).



ORANGE



LONG (> 3s)



OFF

After changing a DIP-switch, the orange LED flashes. A LONG push on the push button confirms the setting.

Always launch a setup after changes of the DIP-settings.

### 4 SETUP

Step outside of the detection field before launching a setup.

#### QUICK SETUP



SHORT



RED-GREEN

OFF

#### ASSISTED SETUP



LONG

LONG (> 3s)



OPEN+CLOSE

RED-GREEN

OFF

The yellow and white wires have to be connected to launch an assisted setup.



Launch an **ASSISTED SETUP** to verify wiring, position of the curtain and correct functioning of the sensor.

### SAFETY INSTRUCTIONS

- Test the good functioning of the installation before leaving the premises.
- The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety and if applicable, the machinery directive 2006/42/EC.
- The device cannot be used for purposes other than its intended use. All other uses cannot be guaranteed by the manufacturer of the sensor.
- The manufacturer of the sensor cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.
- Only trained and qualified personnel may install and setup the sensor.
- The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel.
- Avoid touching any electronic and optical components, avoid vibrations, do not cover the sensor and avoid proximity to neon lamps or moving objects.
- It is recommended to clean the optical parts at least once a year or more often if required due to environmental conditions.

## LED-SIGNALS

	The ORANGE LED flashes quickly.	A DIP-switch was changed without confirmation.	<ol style="list-style-type: none"> <li>1 Confirm the DIP-settings by a long push on the push button.</li> </ol>
	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	<ol style="list-style-type: none"> <li>1 Cut and restore power supply.</li> <li>2 If orange LED flashes again, replace sensor.</li> </ol>
	The ORANGE LED flashes 2 x.	Irregularities in the power supply	<ol style="list-style-type: none"> <li>1 Check power supply.</li> <li>2 Check wiring.</li> </ol>
	The ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	<ol style="list-style-type: none"> <li>1 Use the 1 m prism if possible (accessory).</li> <li>2 Check the angle of the IR-curtain.</li> </ol>
	The ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	<ol style="list-style-type: none"> <li>1 Use a low energy prism if possible (accessory).</li> <li>2 Check the angle of the IR-curtain.</li> </ol>
	The ORANGE LED is on.	The sensor encounters a memory problem.	<ol style="list-style-type: none"> <li>1 Cut and restore power supply.</li> <li>2 If orange LED lights up again, replace sensor.</li> </ol>
	The RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	<ol style="list-style-type: none"> <li>1 Check the angle of the IR-curtain.</li> <li>2 Launch a new assisted setup. <b>Attention: Do not stand in the detection field!</b></li> </ol>
	The RED LED lights up sporadically.	The sensor vibrates.	<ol style="list-style-type: none"> <li>1 Check if the sensor is fastened firmly.</li> <li>2 Check position of prism and cover.</li> </ol>
		The sensor sees the door.	<ol style="list-style-type: none"> <li>1 Launch an assisted setup and adjust the IR angle.</li> </ol>
		The sensor is disturbed by lamps or another sensor.	<ol style="list-style-type: none"> <li>1 Choose a different frequency (DIP 2).</li> </ol>
		The sensor is disturbed by the rain.	<ol style="list-style-type: none"> <li>1 Choose the critical environment presetting (DIP 1).</li> </ol>
	The LED is off.		<ol style="list-style-type: none"> <li>1 Check connections to test output.</li> <li>2 If your door controller is not able to test the sensor, connect the red and blue cable to the power supply.*</li> </ol>
	The reaction of the door does not correspond to the LED-signal.		<ol style="list-style-type: none"> <li>1 Change the output configuration (DIP 4).</li> </ol>

\*excludes EN 16005-conformity of the door system



BEA hereby declares that the VIO-ST SIDE SCREEN is in conformity with the basic requirements and the other relevant provisions of the directives 2014/30/EU, 2006/42/EC and 2011/65/EU.

Notified Body for EC inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen

EC-type examination certificate number: 44 205 13 089601-001

Angleur, April 2016

Pierre Gardier, Authorized representative and responsible for technical documentation

The complete declaration of conformity is available on our website.



Only for EC countries: According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)