16005

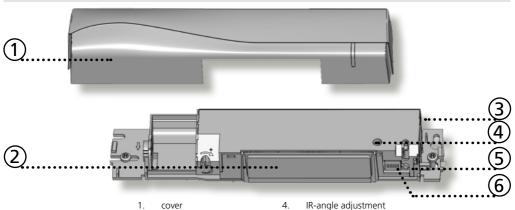
VIO-ST

SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

User's Guide for software version 0200 and higher (refer to tracking label on product)

DESCRIPTION

The VIO-ST is a safety sensor for automatic sliding doors. It provides a double failsafe active infrared curtain for the protection of users.



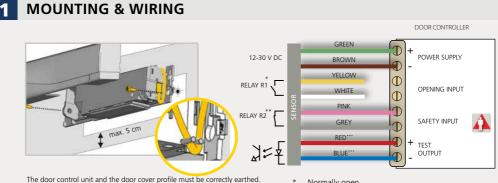
- cover 1.
- 2. IR-prism (2 m)
- 3. main connector
- IR-angle adjustment
- 5. push button for setup or DIP-setting confirmation
- 6. DIP-switch

TECHNICAL SPECIFICATIONS

Supply voltage*:	12 V - 30 V DC -5%/+10%		
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 (IEC/EN 60529)		
Noise:	< 70 dB		
Detection mode:	Presence		
	Typical response time: <256 ms		
	Max. presence time: 30 sec		
Technology:	Active infrared with background analysis		
	Spot diameter: 0.1 m (typ)		
	Number of spots: 24		
	Number of curtains: 2		
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 DC/AC peak		
Hold time output signal:	0.3 s to 1 s (not adjustable)		
Response time on test request:	Typical: < 5 ms		
	EN ICO 12040-1 Devicements level way CAT2 (updat the condition that the deep central automment)		

Safety Standards:

EN ISO 13849-1 Performance level «c» CAT2 (under the condition that the door control system monitors the sensor at least once per door cycle); EN 61508 (SIL2); EN 12978; EN 16005



Normally open

3.00 m

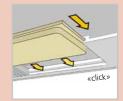
1.60 m

- ** Depending on OUTPUT CONFIGURATION settings
- *** For compliance with EN 16005, connection to door controller test output is required.

Mount the sensor securely.

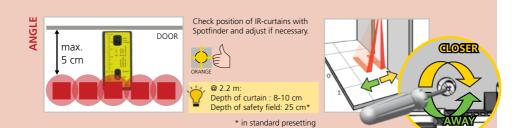
INFRARED FIELD - SAFETY WIDTH н н ١A н w w н 2 m 2.20 m 2.30 m 1 m 2.20 m 1.20 m 2.50 m 2.55 m 2.50 m 1.40 m

3.00 m 2.80 m

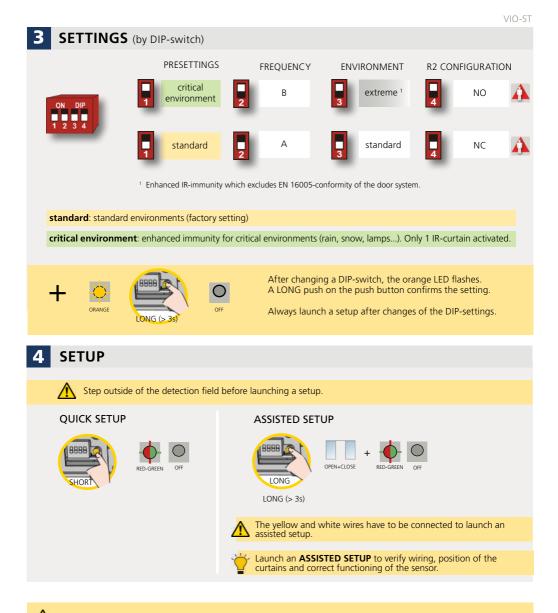


RED LED

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



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



SAFETY INSTRUCTIONS

- Test the good functioning of the installation before leaving the premises.
- The sensor cannot be used for purposes other than its intended use.
- The manufacturer of the door system incorporating the sensor is responsible for compliance of the system to applicable national and international regulations and safety standards.
- The manufacturer of the sensor cannot be held responsible for injury or damage resulting from incorrect use, installation or inappropriate adjustment of the sensor.
- The installer must read, understand and follow the instructions given in this manual. Improper installation can result in improper sensor operation.
- 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.	1 Confirm the DIP-settings by a long push on the push button.
\mathbf{O}_{1}	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	 Cut and restore power supply. If orange LED flashes again, replace sensor.
<mark>.</mark> ₽	The ORANGE LED flashes 2 x.	Irregularities in the power supply	 Check power supply. Check wiring.
<mark>.</mark> ↓	The ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	 Use the 1 m prism if possible (accessory). Check the angle of the IR-curtains.
-5	The ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	 Use a low energy prism if possible (accessory). Check the angle of the IR-curtains.
\bigcirc	The ORANGE LED is on.	The sensor encounters a memory problem.	 Cut and restore power supply. If orange LED lights up again, replace sensor.
¥	The RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	 Check the angle of the IR-curtains. Launch a new assisted setup. Attention: Do not stand in the detection field!
lights u	The RED LED lights up	The sensor vibrates.	 Check if the sensor is fastened firmly. Check position of prism and cover.
	sporadically.	The sensor sees the door.	1 Launch an assisted setup and adjust the IR angle.
		The sensor is disturbed by lamps or another sensor.	1 Choose a different frequency (DIP 2).
		The sensor is disturbed by the rain.	1 Choose the critical environment presetting (DIP 1).
\bigcirc	The LED is off.		 Check connections to test output. If your door controller is not able to test the sensor, connect the red and blue cable to the power supply.*
	The reaction of the door does not correspond to the LED-signal.		1 Change the output configuration (DIP 4).
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*excludes EN 16005-conformity of the door system

PLEASE KEEP FOR FURTHER USE - DESIGNED FOR COLOUR PRINTING

Hereby, BEA declares that the VIO-ST is in conformity with European directives 2014/30/EU (EMC), 2006/42/EC (Machinery) and 2011/65/EU (RoHS).

EC-type examination certificate from TÜV NORD CERT: 44 205 13089601.

The complete declaration of conformity is available on our website.

This product should be disposed of separately from unsorted municipal waste.