| | flashes quickly. | without confirmation. | push button. |
|--------------------------|--|---|--|
| 1 | The ORANGE LED flashes 1 x. | The sensor signals an internal fault. | Cut and restore power supply. 2 If orange LED flashes again, replace sensor. |
| | The ORANGE LED flashes 2 x. | Irregularities in the power supply | 1 Check power supply. 2 Check wiring. |
| 4 | 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. |
| \(\rightarrow\) 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. |
| | The ORANGE LED is on. | The sensor encounters a memory problem. | Cut and restore power supply. 2 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. | 1 Check the angle of the IR-curtains. 2 Launch a new assisted setup. Attention: Do not stand in the detection field! |
| | 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). |
| | The LED is off. | | 1 Check connections to test output. 2 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). |

The ORANGE LED A DIP-switch was changed 1 Confirm the DIP-settings by a long push on the

*excludes EN 16005-conformity of the door system





BEA hereby declares that the VIO-ST is in conformity with the basic requirements and the other relevant provisions of the directives 2004/108/EC and 2006/42/EC.

Notified Body for EC inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen EC-type examination certificate number: 44 205 13 089601

Angleur, June 2013 Jean-Pierre Valkenberg, Authorized representative and responsible for technical documentation. The complete declaration of conformity is available on our website: www.bea-pedestrian.be

Only for EC countries: According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment (WEEE)

User's Guide for product version 0100 and higher See product label for serial number

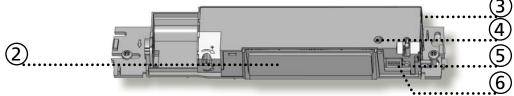


VIO-ST

Safety sensor for automatic sliding doors

DESCRIPTION





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

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: | MD 2006/42/EC; ROHS 2 2011/65/EU; EN 16005:2012; EN 12978:2009; EN IEC 62061:2005 SIL2; EN 61496-1:2012 ESPE Type 2; EN ISO 13849-1:2008 PI «c» CAT.2 (under the condition that the door control system monitors the sensor at least once per door cycle) | |
| | | |

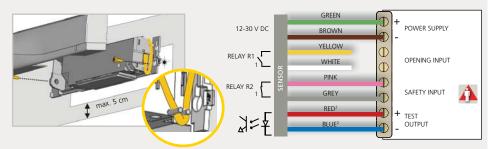






| Detection mode: | Presence |
|--------------------------------|--|
| | Typical response time: <256 ms |
| Technology: | Active infrared with background analysis |
| | Spot diameter: 0.1 m (typ) |
| | Number of spots: 24 |
| | Number of curtains: 2 |
| Angle: | From -4 ° to +4 ° (adjustable) |
| Output: | Solid-state-relay |
| | (free of potential, free of polarity) |
| | Max. contact current: 100 mA |
| | Max. contact voltage: 42 V AC/DC |
| Hold time output signal: | 0.3 s to 1 s (not adjustable) |
| Response time on test request: | Typical: < 5 ms |
| | |
| | |

MOUNTING & WIRING

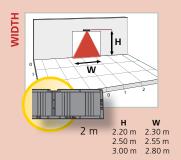


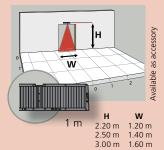
The door control unit and the door cover profile must be correctly earthed.

- 1 Output status when sensor is operational
- ² For compliance with EN 16005, connection to door controller test output is required.

INFRARED FIELD - SAFETY

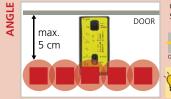








Detection field width indicated according to conditions defined in EN 16005 and including dimension of test body CA.



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



Depth of curtain: 8-10 cm Depth of safety field: 25 cm*

* in standard presetting



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





¹ 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...). Only 1 IR-curtain activated.









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.

SETUP



Step outside of the detection field before launching a setup.

QUICK SETUP





ASSISTED SETUP





LONG (> 3s)



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



Launch an **ASSISTED SETUP** to verify wiring, position of the curtains 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
- 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.