LED-SIGNALS				
	The RED or GREEN LED is ON sporadicly.	Bad adjustment	1 Check if the DIP-switch 4 is ON (uncovered zone). 2 Launch a calibration.	
	The RED or GREEN LED is ON permanently.	Bad adjustment of the uncovered zone.	Check if the DIP-switch 4 is ON (uncovered zone).Launch a calibration.	
	The sensor does not react, but a calibration can be launched.	The monitoring is activated, but the test input is not powered.	Chech wiring. - Door control with test: Connect RED and BLUE wires to test output. - Door control without test: Connect RED to 0 V and BLUE to +12 V - 30 V DC.	
	The ORANGE LED is on permanently.	The sensor encounters a memory problem.	1 Send the sensor back for a technical check-up.	
\	The ORANGE LED flashes quickly.	DIP-switch setting awaiting confirmation.	1 Corfirm the DIP-switch setting: long push on the push button.	
-	The ORANGE LED flashes 1 x every 3 seconds.	The sensor signals an internal fault.	1 Cut and restore power supply. 2 If orange LED flashes again, replace sensor.	
\\ _2	The ORANGE LED flashes 2 x every 3 seconds.	Power supply is out of limit.	Check power supply (tension, capacity). Reduce the cable length or change cable.	
3	The ORANGE LED flashes 3 x every 3 seconds.	Communication error between modules.	Check wiring between modules. Launch a module count: long push on push button of MASTER.	
4	The ORANGE LED flashes 4 x every 3 seconds.	The sensor receives not enough IR-energy.	 1 Launch a new calibration. 2 Step out of the detection field. 3 Change angle of spots. 4 Switch off background (DIP 3: OFF). 	
-	The ORANGE LED flashes 5 x every 3 seconds.	The sensor receives too much IR-energy.	1 Launch a new calibration.	
		Calibration error	Check mounting height. Change position of calibration screw.	



SAFETY INSTRUCTIONS

The ORANGE LED

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.

Launch a new calibration.

Launch a new calibration.

1 Select a different frequecy for each module (DIP 2).

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.

BEA hereby declares that the 4SAFE ON SW 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 Angleur, December 2010 Jean-Pierre Valkenberg, Authorized representative

The sensor is disturbed by

lamps or another sensor.

The complete declaration of conformity is available on our website: www.bea.be

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



Please keep for further use Designed for colour printing

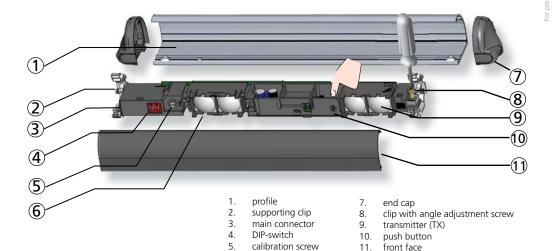


Other use of the device is outside the permitted purpose and can not be guaranteed by the manufacturer. The manufacturer cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.

4SAFE ON SW

Safety sensor for automatic swing doors

DESCRIPTION



receiver

TECHNICAL SPECIFICATIONS =

Technology:	active infrared with background suppression		
Detection field:	400 mm (W) x 70 mm (D) (at 2 m mounting height; 4 spots active)		
Mounting height:	1.1 m to 3 m (according to floor reflectivity)		
Reaction time:	64 ms (typ)		
Max. presence time:	infinite		
Supply voltage:	12 V - 24 V AC +/-10% ; 12 V - 30 V DC -5%/+10%		
	(to be operated from SELV compatible power supplies only)		
Max current consumption:	110 mA @ 24 V AC/ 70 mA @ 24 V DC; 190 mA @ 12 V AC/ 145 mA @ 12 V DC (MASTER)		
	85 mA @ 24 V AC/ 60 mA @ 24 V DC; 180 mA @ 12 V AC/ 113 mA @ 12 V DC (other modules)		
Output:	2 relays (free of potential contact)		
Max. contact voltage	42 V AC/DC		
Max. contact current	1 A (resistive)		
Max. switching power	30 W (DC) / 60 VA (AC)		
Input:	1 optocoupler (free of potential contact)		
Max. contact voltage:	30 V		
Voltage threshold:	high: >10 V DC; low: <1 V DC		
Max. number of modules:	4 (up to 6 if 24 V DC)		
Reflectivity:	min. 5% at IR-wavelength of 850 nm		
Degree of protection:	IP53		
Temperature range:	-25 °C to +55 °C; 0-95% relative humidity, non condensing		
Expected lifetime:	5 years		
Norm conformity:	EMC 2004/108/EC; MD 2006/42/EC; EN 12978		
	EN ISO 13849-1:2008 Performance Level «c» CAT. 2		
	(under the condition that the door control system monitors the sensor at least once per door cycle)		

MOUNTING THE PROFILE



Mount the profiles as close as possible to the closing edge. Leave 2 cm for the black end caps.

Take the position of the white clips into account before drilling and fastening the screws.

POSITIONING THE MODULES



The transmitter (TX) should be placed next to the door edges that need to be protected.

The angle adjustment clip should be next to the transmitter.

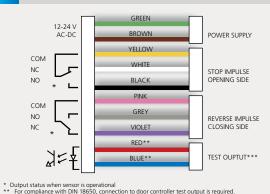


Turn the module if necessary.

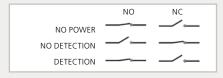
When a module needs to be turned:

- 1. detach the clips
- 2. turn them by 180°
- 3. reattach

WIRING



The module connected to the door controller becomes the MASTER.



Plug the SLAVE CABLE between the modules in one of the two placements.



SETTINGS



FACTORY VALUE

RELAY 1 ON **OPENING SIDE**

RELAY 2 **CLOSING SIDE**

MOUNTING

SIDE

LED during detection: R1 > RED R2 > GREEN

Set different

FREOUENCY

FREQ A

FREO B

frequencies on modules close to each other.

reflectivity: switch to OFF

* Recommended for most applications

Approximate values

at 1.8 m.

Mounting height > 2.7 m: switch to ON to allow for DIN 18650-conformity

BACKGROUND

ON

OFF

Not enough background

UNCOVERED

ZONE

35 cm*

15 cm



OFF

After changing a DIP-switch, the orange LED flashes.

A LONG push on the push button of the **MASTER** confirms the settings of ALL MODULES.

Afterwards, a number of green flashes (x) indicates the number of connected modules.

CALIBRATION



A SHORT push on the button of the MASTER launches a calibration on ALL MODULES.

Do not stand in the detection field!



When the LED is off on all modules, the detection zone is OK.



The detection zone is too short: turn the screw clockwise.



The detection zone is too long: turn the screw anticlockwise.



The flashing speed of the LED increases when approaching the optimal position



Step out of the detection field. If necessary, change angle or switch off background (DIP 3 = OFF).



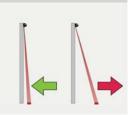
Launch a new calibration.

DOOR SAFETY CHECK

IMPORTANT: Test the good functioning of the installation before leaving the premises.

If necessary, position spots closer to or away from the door and relaunch a calibration.





*** If door controller is not tested: conncect BLUE to 0 V and RED to +12 V - 30 V DC 4SAFE ON SW