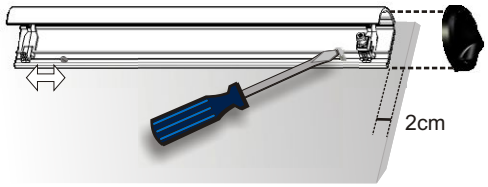
BEA
OPEN UP NEW HORIZONS

4SAFE ON
SAFETY FOR SWING DOORS
STEP BY STEP

1 MOUNTING THE PROFILE

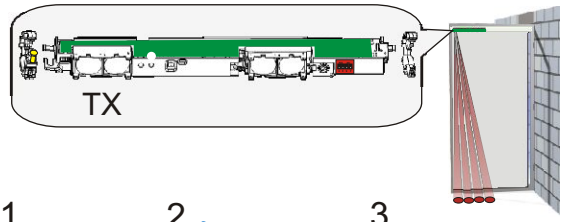


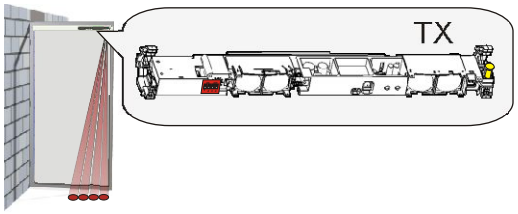
Mount the profiles as close as possible to the leading mullion.
Leave 2cm for the black end caps.

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

2 POSITIONING THE CARDS

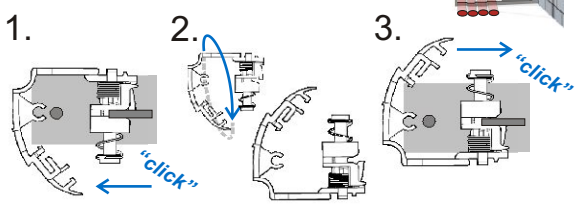
The transmitter (see label) should be placed next to the leading mullion!





If a card needs to be turned:

1. detach white clips
2. turn by 180°
3. reattach



The clip with the screw should be next to the transmitter!

3 WIRING

1. TO DOOR CONTROL

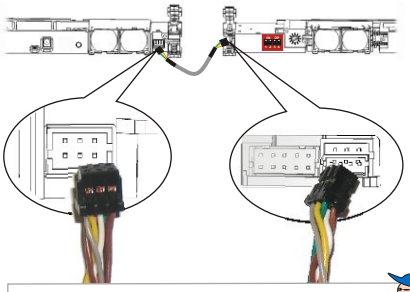
The card connected to the door control becomes the **MASTER**.

	GREEN BROWN		POWER SUPPLY
RELAY 1	YELLOW WHITE BLACK	COM NC NO	STOP-IMPULSE
RELAY 2	PINK VIOLET GREY	COM NC NO	REVERSE-IMPULSE
	RED BLUE		MONITORING

	NO	NC
NO POWER		
NO DETECTION		
DETECTION		

Door control without monitoring:
BLUE to 0V, RED to +12-24V.

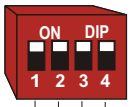
2. BETWEEN CARDS



The connectors can be plugged right or left on the card.

4 SETTINGS

1. DIP-SWITCH



	OUTPUT REDIRECTION	FREQUENCY	BACKGROUND MODE	UNCOVERED ZONE
ON	Relay 1 Opening side (RED)	Frequency 2	ON	35 cm*
OFF	Relay 2 Closing side (GREEN)	Frequency 1	OFF	15 cm*

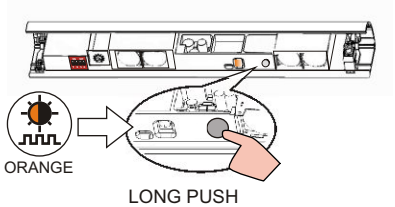
DETECTION

Set different frequencies on cards close to each other.

Difficult background → OFF

*Approximate values for mounting height of 1.8m.

2. CONFIRM SETTINGS



LONG PUSH
till orange LED is OFF

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

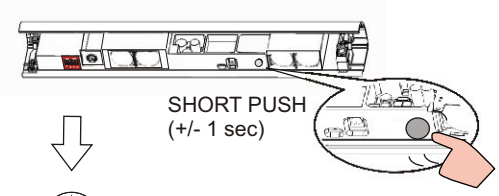
Confirm the setting with a long push on the push button.

A long push on the button of the MASTER confirms the setting of all cards.

Afterwards, a number of green flashes indicates the number of cards.

5 SETUP

1. LAUNCH SETUP on master (card connected to door control)



A short push on the button of the MASTER launches a setup on all cards.

Do not stand in the detection field!

2. SET DETECTION ZONE on all cards

RED
GREEN

LED flashes red/green.

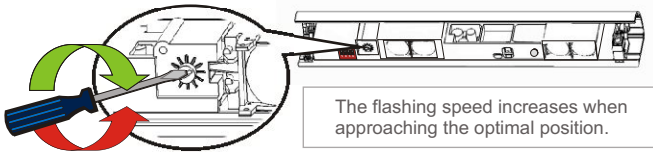
Then one of the following LED-signals tells you what to do:

When the LED goes OFF, the detection zone is OK.

OR

GREEN — Detection zone is too short: Turn screw clockwise

RED — Detection zone is too long: Turn screw anticlockwise



The flashing speed increases when approaching the optimal position.

OR

ORANGE

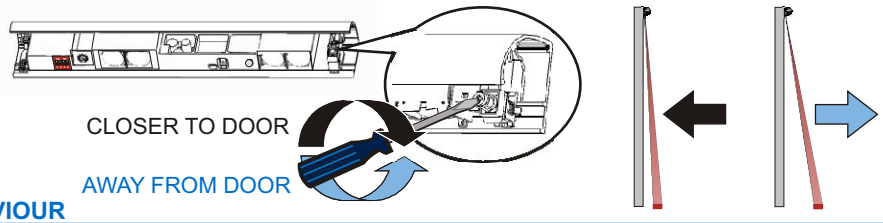
4x Step out of the detection field. If necessary, switch off background mode (DIP 3 = OFF).

5x Launch new setup. Attention: Do not stand in the detection field!

6 DOOR SAFETY CHECK

Test if door and sensor function correctly.

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



FIRST AID IN CASE OF FAULTY BEHAVIOUR

Sensor detects for no obvious reason.	Launch setup. or Check if cards close to each other have different frequencies (DIP 2). or Increase dead zone (DIP 4 = ON). or Switch off background mode (DIP 3 = OFF).
Sensor does not react, but setup can be launched.	Check wiring: connect RED and BLUE to monitoring output. If door control has no monitoring: BLUE to 0V and RED to +12-24V.
Red or green LED is ON permanently.	Launch setup. or Switch off background mode (DIP 3 = OFF).
Orange LED flashes quickly.	Long push on push button to confirm dip-switch setting.
Orange LED flashes in short intervals.	Cut and restore power supply. Sensor displays one of the following signals:
1x Orange LED flashes 1x every 3 seconds.	Cut and restore power supply. If orange LED flashes again, exchange sensor.
2x Orange LED flashes 2x every 3 seconds.	Power supply is unstable, check power. If orange LED flashes again after restoring power supply, exchange sensor.
3x Orange LED flashes 3x every 3 seconds.	Check wiring or launch a card count: long push on button of MASTER until green LED indicates the number of cards.
4x Orange LED flashes 4x every 3 seconds.	Step out of the detection field. or Switch off background mode (DIP 3 = OFF).
5x Orange LED flashes 5x every 3 seconds.	Start a new setup. Attention: Do not stand in the detection field!

TECHNICAL SPECIFICATIONS

Technology:	active infrared with background suppression		
Detection field:	400mm (W) x 70mm (D) (4 spots at 2m mounting height)		
Mounting height:	1.1m to 3m (max. 2.7m if DIP 3 = OFF)	**Max. number of cards:**	4 (up to 6 if 24V DC)
Reaction time:	32ms to 128ms (depending on immunity)	**Reflectivity:**	min 5% at IR-wavelength of 850nm
Supply voltage:	12V - 24V AC -5%/+10% ; 12V - 30V DC -5%/+10%	**Degree of protection:**	IP53
Max current consumption:	120mA @ 24V AC/ 65mA @ 24V DC (MASTER) 80mA @ 24V AC/ 65mA @ 24V DC (other cards)	**Temperature range:**	-25°C to +55°C; 0-95% relative humidity, non condensing
Output:	2 relays (free of potential contact)	**Input**	1 optocoupler (free of potential contact)
Max. contact voltage	42V AC/DC	Max. contact voltage	30V
Max. contact current	1A (resistive)	Voltage treshold	10V
Max. switching power	30W (DC) / 60VA (AC)		

This installation guide is a summary of the user's guide, which can be downloaded on our website: www.bea.be

If you are interested in product trainings or require further documentation or information, please do not hesitate to contact us.

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