

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 0 V and RED to +12 V - 24 V.
Red or green LED is ON permanently.	→	Launch setup. or Switch off background mode (DIP 3 = OFF).
Orange LED is ON permanently.	→	Send the sensor back for a technical check-up.
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 every 3 seconds.	→	Cut and restore power supply. If orange LED flashes again, exchange sensor.
2x Orange LED flashes every 3 seconds.	→	Power supply is out of limit. Check power. If orange LED flashes after restoring power supply, exchange sensor.
3x Orange LED flashes every 3 seconds.	→	Check wiring between cards or launch a card count: long push on button of MASTER.
4x Orange LED flashes every 3 seconds.	→	Step out of the detection field. or Switch off background mode (DIP 3 = OFF).
5x Orange LED flashes 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:	400 mm (W) x 70 mm (D) (4 spots at 2 m mounting height)
Mounting height:	1.1 m to 3 m (max. 2.7 m if DIP 3 = OFF)
Reaction time:	32 ms to 128 ms (depending on immunity)
Supply voltage:	12 V - 24 V AC -5%/+10% ; 12 V - 30 V DC -5%/+10%
Max current consumption:	120 mA @ 24 V AC/ 65 mA @ 24 V DC (MASTER) 80 mA @ 24 V AC/ 65 mA @ 24 V DC (other cards)
Output:	2 relays (free of potential contact) 42 V AC/DC
Max. contact voltage	1 A (resistive)
Max. contact current	30 W (DC) / 60 VA (AC)
Max. switching power	4 (up to 6 if 24 V DC)
Max. number of cards:	min 5% at IR-wavelength of 850 nm
Reflectivity:	IP53
Degree of protection:	-25 °C to +55 °C; 0-95% relative humidity, non condensing
Temperature range:	1 optocoupler (free of potential contact)
Input:	30 V
Max. contact voltage:	high: >10 V DC
Voltage threshold:	low: <1 V DC

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.



6-STEP INSTALLATION

1 MOUNTING THE PROFILE

Mount the profiles as close as possible to the closing edge. Leave 2 cm 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 closing edge!

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

Sometimes the card needs to be turned to do so.

When a card needs to be turned:

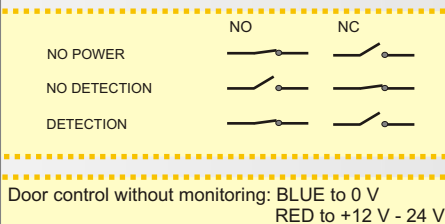
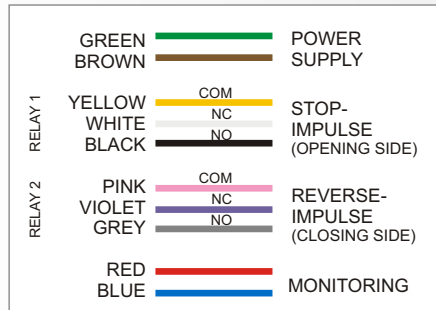
1. detach white clips
2. turn by 180°
3. reattach



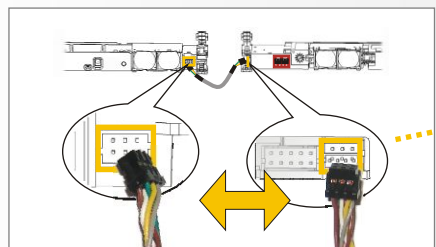
3

WIRING TO DOOR CONTROL

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



WIRING BETWEEN CARDS

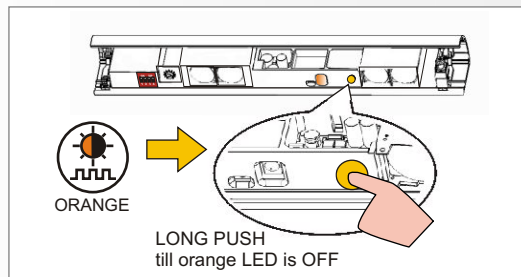


4

SETTINGS DIP-SWITCH

	MOUNTING SIDE	FREQUENCY	BACKGROUND MODE	UNCOVERED ZONE
	Relay 1 Opening side	Freq 2	ON	35 cm*
	Relay 2 Closing side	Freq 1	OFF	15 cm*
	During detection: RELAY 1 (RED) RELAY 2 (GREEN)	Set different frequencies on cards close to each other.	Difficult background → OFF	*Approximate values for mounting height of 1.8 m.

SETTINGS CONFIRMATION ON MASTER



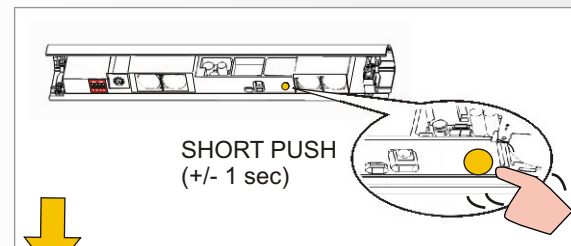
After changing a DIP-switch, the orange LED flashes.

Confirm the settings of ALL CARDS with a long push on the push button of the **MASTER**.

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

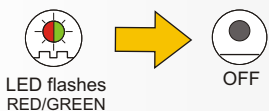
5

LAUNCH SETUP ON MASTER (card connected to door controller)

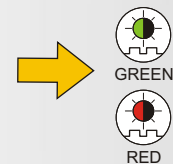


A short push on the button of the **MASTER** launches a setup on ALL CARDS.

Do not stand in the detection field!

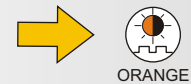
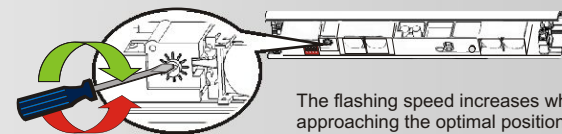


LED IS OFF ON ALL CARDS > DETECTION ZONE IS OK!



Detection zone is too short: Turn screw clockwise

Detection zone is too long: Turn screw anticlockwise



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.

