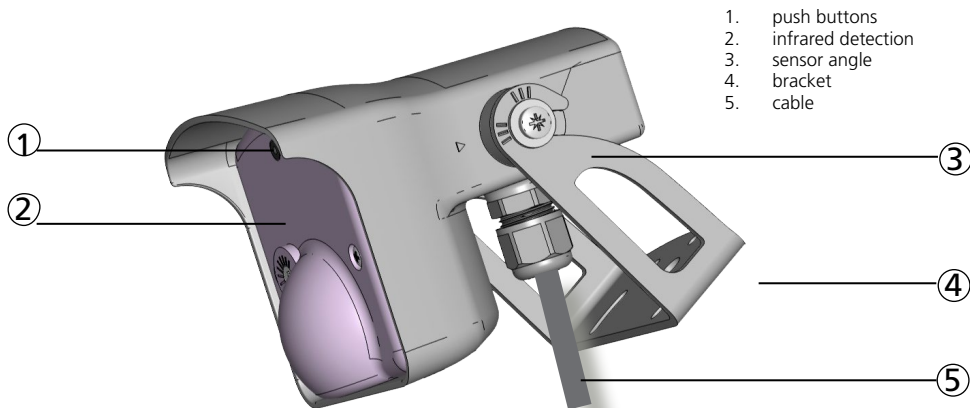


# MILAN

## PRESENCE SENSOR FOR AUTOMATIC INDUSTRIAL DOORS

User's Guide for software version 0700 and higher  
(refer to tracking label on product)

### DESCRIPTION



### TECHNICAL SPECIFICATIONS

Supply voltage\*: 12V to 24V AC  $\pm 10\%$  (50 - 60 Hz); 12V to 24V DC +10% / -3%

Power consumption: < 3.5 W

Output\*: 2 relays (free of potential change-over contact)

Max. contact voltage: 42 V DC/AC peak

Max. contact current: 1 A (resistive)

Max. switching power: 15 W

Output holdtime: 0.5 s

Mounting height: 2.5 m - 6 m\*\*

Temperature range: from -30 °C to + 60 °C

Humidity: 0 - 95% non condensing

Degree of protection: IP65 (IEC/EN 60529)

Dimensions: 127 mm (L) x 102 mm (H) x 96 mm (W)

Materials: ABS and polycarbonate

Weight: 400 g

Cable length: 10 m



Technology: active infrared

Transmitter frequency/wavelength: 875 nm

Transmitter power density: < 250 mW/m<sup>2</sup>

Detection mode: motion & presence

Detection field: 4 m x 4 m (emitting spots\*\*\*)

Min. detection speed: 5 cm/s to activate detection

Reaction time: 250 ms

Tilt angle: 15° - 45°

Specifications are subject to changes without prior notice.  
Measured in specific conditions

\* External electrical sources must be within specified voltages, max 100W and ensure double insulation from primary voltages.

\*\* depending on size and nature of target.

\*\*\* Zone detected by spotfinder, slightly bigger than actual detection field.

## LED- SIGNAL



Output 1  
Value indication



LED flashes



Output 2  
Parameter indication



LED flashes quickly

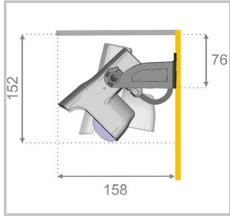


Setup

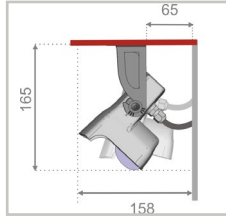


LED is off

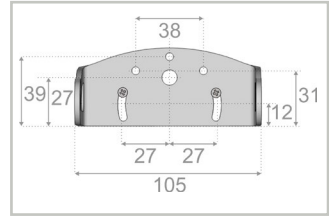
## DIMENSIONS (in mm)



Wall mounting



Ceiling mounting



Bracket dimensions

## SAFETY INSTRUCTIONS



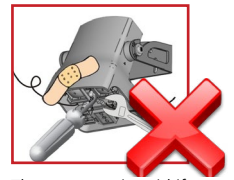
Only trained and qualified personnel may install and setup the sensor.



After installation, save an access code to lock the sensor.



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

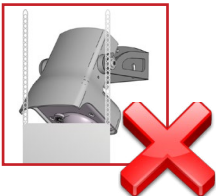


The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel.

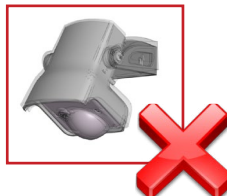


- The sensor cannot be used for purposes other than its intended use.
- The manufacturer of the door system incorporating the sensor is responsible for compliance of the system to applicable national and international regulations and safety standards.
- The installer must read, understand and follow the instructions given in this manual. Improper installation can result in improper sensor operation.
- The manufacturer of the sensor cannot be held responsible for injury or damage resulting from incorrect use, installation or inappropriate adjustment of the sensor.

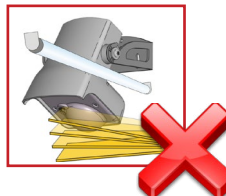
## MOUNTING TIPS



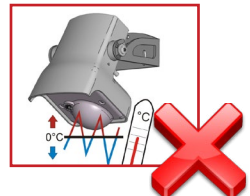
Do not cover the sensor.



Avoid extreme vibrations.



Avoid proximity to neon lamps or moving objects.



Avoid exposing the sensor to sudden temperature changes.

## HOW TO USE THE REMOTE CONTROL



After unlocking, the red LED flashes and the sensor can be adjusted by remote control.

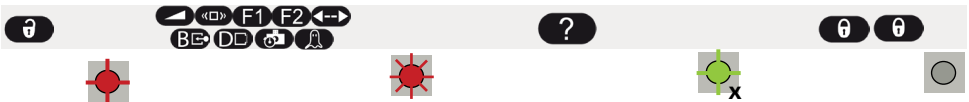


If the red LED flashes quickly after unlocking, enter an access code from 1 to 4 digits. If you do not know the access code, **cut and restore the power supply**. During 1 minute, you can access the sensor without introducing any access code.

## ADJUSTING ONE OR MORE PARAMETERS

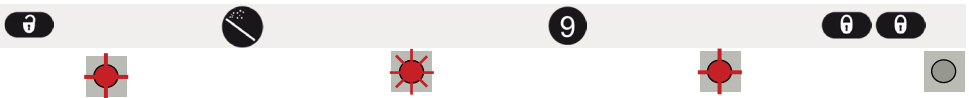


## CHECKING A VALUE



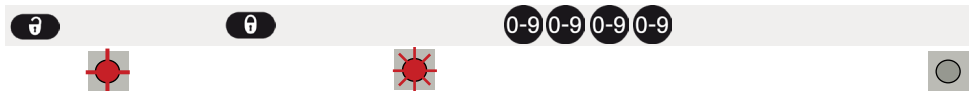
The number of flashes indicates the value of the chosen parameter.

## RESTORING TO FACTORY VALUES



## SAVING AN ACCESS CODE

The access code is recommended for sensors installed close to each other.



## DELETING AN ACCESS CODE

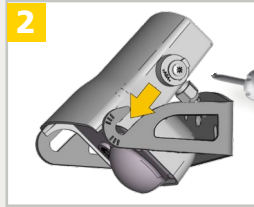


If you do not know the access code, **cut and restore the power supply**. During 1 minute, you can access the sensor without introducing any access code.

# 1 MOUNTING



Remove the bracket from the sensor.  
Drill 2 holes accordingly.  
Fix the bracket firmly.

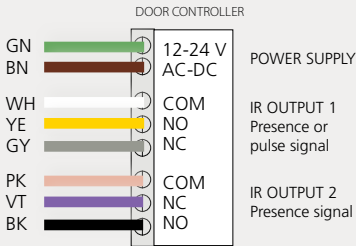


Position the sensor on the bracket and fasten the screws.

Mount the sensor securely.



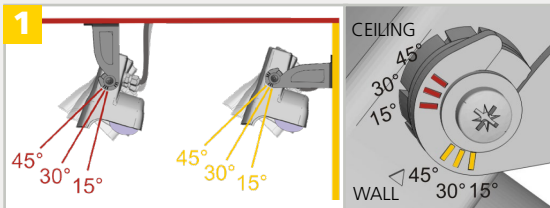
# 2 WIRING



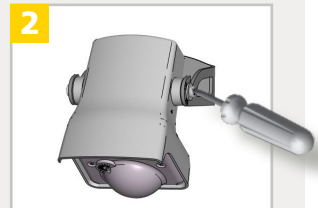
Connect the wires to the door controller.  
Choose between NO and NC contact.



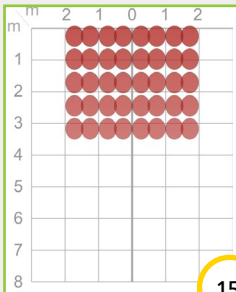
# 3 SENSOR ANGLE



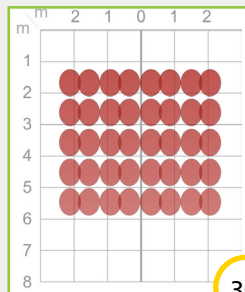
Adjust the angle of the sensor to position the detection fields.



Tighten the screws firmly.

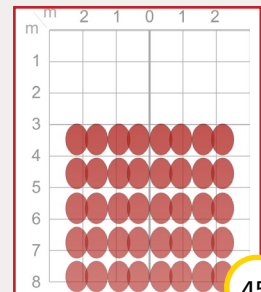


15°



30°

RECOMMENDED



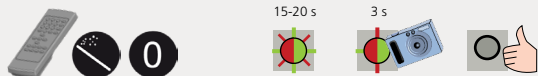
45°

NOT RECOMMENDED

All detection field dimensions are measured in specific conditions (mounting height: 5 m).

Infrared field = emitting spots detectable by Spotfinder. The actual detection field is slightly smaller and influenced by external factors.

## 4 SETUP



Launch a setup to make a reference picture.  
Step out of the detection field and do not leave any tools inside the detection field.

After first power on, the sensor launches a setup and after each power cut a short setup is launched.

### POSSIBLE REMOTE CONTROL SETTINGS



OUTPUT REDIRECTION	F1	presence	ir entry pulse	ir exit pulse	frontal ir entry pulse	frontal ir exit pulse	RELAY 1	<input type="checkbox"/>
		presence	presence	presence	presence	presence	RELAY 2	<input type="checkbox"/>

FREQUENCY	DE	A	B									
MAX. PRESENCE DETECTION TIME		30 s	1 min	2 min	5 min	10 min	20 min	1 h	1 h 30	2 h	∞*	* not guaranteed
IR-CURTAIN IMMUNITY		low	normal	high								
MIN. SIZE OF TARGET	F2											The position of the target in the field is random.
IR-DETECTION FIELD	BE											

FACTORY VALUES








RESETTING TO FACTORY VALUES:



#### IMPORTANT:

Test the good functioning of the installation before leaving the premises.  
Always finish an adjustment session by launching a setup.

## TROUBLESHOOTING

	The door remains closed and the LED is OFF.	The sensor power is off.	<b>1</b> Check the wiring and the power supply.
	The infrared sensor does not react.	The infrared power emission is too low according to the mounting height.	<b>1</b> Launch a new setup. Step out of the detection field!
 	The door opens and closes constantly.	The sensor is disturbed by the door motion or vibrations caused by the door motion.	<b>1</b> Make sure the sensor is fixed properly. <b>2</b> Increase the sensor angle and/or radar angle. <b>3</b> Reduce the field size.
	Sporadic presence detections for no reason.	The presence detection is disturbed by rain or lamps.	<b>1</b> Set the IR-curtain immunity to value 3.
		The sensor is not installed properly.	<b>1</b> Fasten the sensor firmly.
	The red LED is permanently ON after a setup.	The sensor has failed the IR-setup.	<b>1</b> Launch a new setup. Step out of the detection field!
	The setup lasts more than 30 seconds.	The setup is disturbed.	<b>1</b> Make sure the detection field is clear and launch a new setup.
		Another sensor causes interferences.	<b>1</b> Select a different frequency for each sensor.
	The sensor does not unlock and the red LED flashes quickly.	The sensor needs an access code to unlock.	<b>1</b> Enter the right access code. <b>2</b> If you do not know the access code, cut the power supply and restore it to access the sensor and change the access code or delete it.
	The sensor does not respond to the remote control.	The remote control batteries are weak or improperly installed.	<b>1</b> Check the batteries and change them if necessary.
		The remote control is badly pointed.	<b>1</b> Point the remote control towards the sensor.
		The sensor is not powered.	<b>1</b> Check the power supply of the sensor.





BEA SA | LIEGE Science Park | Allée des Noisetiers, 5 - 4031 ANGLEUR [BELGIUM] | T +32 4 361 65 65 | F +32 4 361 28 58 | info-eu@beasensors.com | www.beasensors.com



BEA hereby declares that this product is in conformity with the European legislation :  
2014/30/EU (EMC) and 2011/65/EU (RoHS).



The complete declaration of conformity is available on our website.  
This product should be disposed of separately from unsorted municipal waste