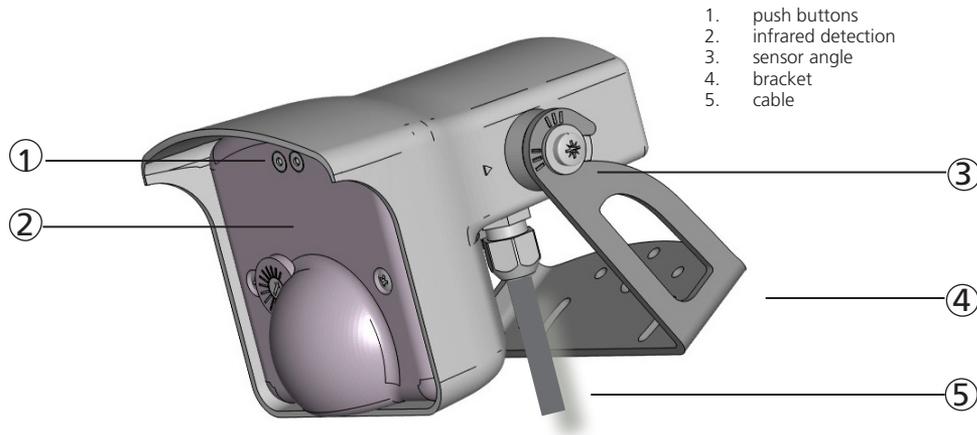


# IS40-P

## Presence sensor for automatic industrial doors

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.

### DESCRIPTION



### TECHNICAL SPECIFICATIONS

Supply voltage:	12V to 24V AC $\pm 10\%$ ; 12V to 24V DC $+10\%$ / $-3\%$
Power consumption:	$< 3.5$ W / VA
Mains frequency:	50 to 60 Hz
Output:	2 relays (free of potential change-over contact)
Max. contact voltage:	42 V AC/DC
Max. contact current:	1 A (resistive)
Max. switching power:	30 W (DC) / 48 VA (AC)
Output holdtime:	0.5 s
Mounting height:	98 in - 236 in*
Temperature range:	from $-22$ °F to $+140$ °F
Humidity:	0 - 95% non condensing
Degree of protection:	IP65
Dimensions:	5 in (L) x 4 in (H) x 3.8 in (W)
Materials:	ABS and polycarbonate
Weight:	14 oz
Cable length:	394 in
Norm conformity:	EMC 2004/108/EC



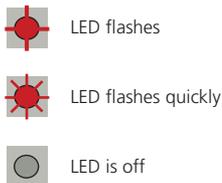
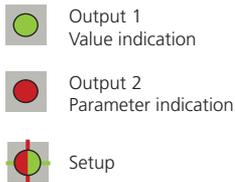
Technology:	active infrared
Transmitter frequency/wavelength:	875 nm
Transmitter power density:	$< 250$ mW/m <sup>2</sup>
Detection mode:	motion & presence
Detection field:	157 in x 157 in (emitting spots**)
Min. detection speed:	2 in/s to activate detection
Reaction time:	250 ms
Tilt angle:	$15^\circ$ - $45^\circ$

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

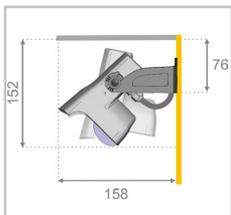
\* depending on size and nature of target

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

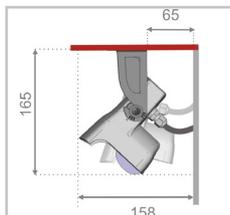
## LED- SIGNAL



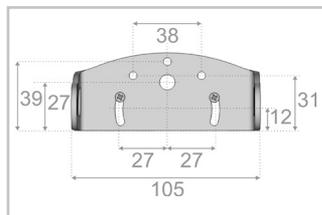
## DIMENSIONS (in mm)



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 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.

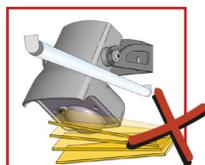
## MOUNTING TIPS



Do not cover the sensor.



Avoid extreme vibrations.

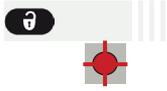


Avoid proximity to neon lamps or moving objects.



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



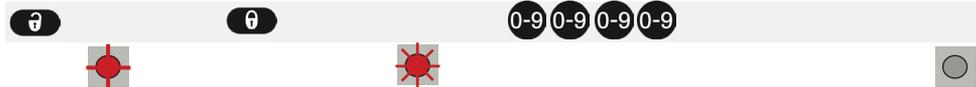
The number of flashes indicates the value of the chosen parameter.

## RESTORING TO FACTORY VALUES



## SAVING AN ACCESS CODE

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

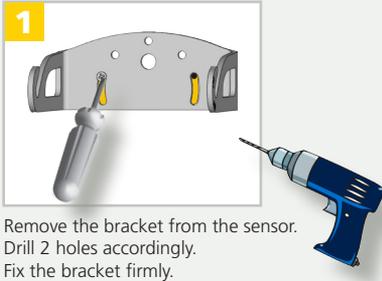


## DELETING AN ACCESS CODE

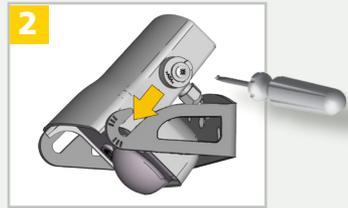


If you do not know the access code, **cut and restore the power supply**. During 1 minute, you can access the sensor without introducing any access code.

# 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.

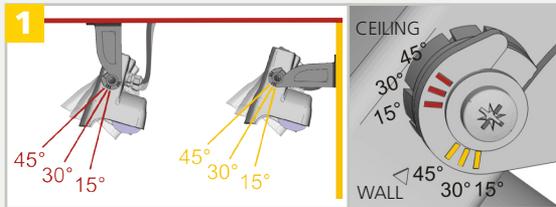
# 2 WIRING

RED		12-24 V	POWER SUPPLY		
BLACK		AC-DC			
WHITE		COM	IR OUTPUT 1 Presence or pulse signal		
GREEN		NO			
YELLOW		NC			
WHITE/BLACK		COM	IR OUTPUT 2 Presence signal		
GREEN/BLACK		NC			
YELLOW/BLACK		NO			

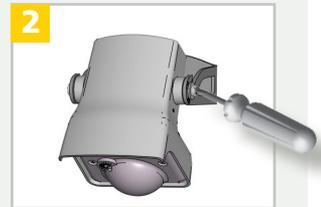
Connect the wires to the door controller.  
Choose between NO and NC contact.

NO POWER			ACTIVE
NO DETECTION			
DETECTION			ACTIVE
NO POWER			PASSIVE
NO DETECTION			
DETECTION			PASSIVE

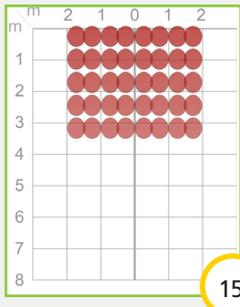
# 3 SENSOR ANGLE



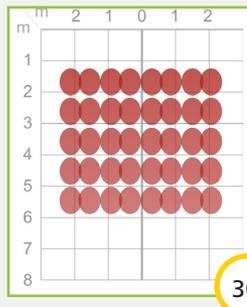
Adjust the angle of the sensor to position the detection fields.



Tighten the screws firmly.

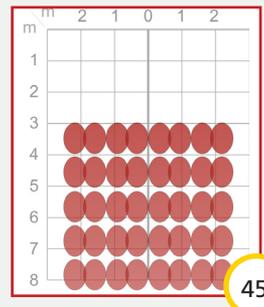


15°



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.

# 5 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: **9**

**IMPORTANT:**  
Test the proper operation 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.	<ol style="list-style-type: none"> <li>1 Check the wiring and the power supply.</li> </ol>
	The infrared sensor does not react.	The infrared power emission is too low according to the mounting height.	<ol style="list-style-type: none"> <li>1 Launch a new setup. Step out of the detection field!</li> </ol>
	The door opens and closes constantly.	The sensor is disturbed by the door motion or vibrations caused by the door motion.	<ol style="list-style-type: none"> <li>1 Make sure the sensor is fixed properly.</li> <li>2 Increase the sensor angle and/or radar angle.</li> <li>3 Reduce the field size.</li> </ol>
			Sporadic presence detections for no reason.
	The sensor is not installed properly.	<ol style="list-style-type: none"> <li>1 Fasten the sensor firmly.</li> </ol>	
	The red LED is permanently ON after a setup.	The sensor has failed the IR-setup.	<ol style="list-style-type: none"> <li>1 Launch a new setup. Step out of the detection field!</li> </ol>
	The setup lasts more than 30 seconds.	The setup is disturbed.	<ol style="list-style-type: none"> <li>1 Make sure the detection field is clear and launch a new setup.</li> </ol>
		Another sensor causes interferences.	<ol style="list-style-type: none"> <li>1 Select a different frequency for each sensor.</li> </ol>
	The sensor does not unlock and the red LED flashes quickly.	The sensor needs an access code to unlock.	<ol style="list-style-type: none"> <li>1 Enter the right access code.</li> <li>2 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.</li> </ol>
		The remote control batteries are weak or improperly installed.	<ol style="list-style-type: none"> <li>1 Check the batteries and change them if necessary.</li> </ol>
	The sensor does not respond to the remote control.	The remote control is badly pointed.	<ol style="list-style-type: none"> <li>1 Point the remote control towards the sensor.</li> </ol>
		The sensor is not powered.	<ol style="list-style-type: none"> <li>1 Check the power supply of the sensor.</li> </ol>





BEA hereby declares that the MILAN is in conformity with the basic requirements and the other relevant provisions of the directive 2004/108/EC.  
Angleur, April 2011                      Jean-Pierre Valkenberg, authorized representative  
The complete declaration of conformity is available on our website: [www.bea-industrial.be](http://www.bea-industrial.be)



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