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.

CONDOR /-XL

MOTION AND PRESENCE SENSOR FOR AUTOMATIC INDUSTRIAL DOORS

CONDOR: for normal to high mounting (3.5 - 6 m) CONDOR XL: for low mounting (2 - 3.5 m)

DESCRIPTION push buttons 2. infrared detection 3. radar angle 4. radar detection 5. sensor angle 6. bracket cable

TECHNICAL SPECIFICATIONS

Supply voltage*:	12V to 24V AC ±10% (50 - 60 Hz); 12V to 24V DC +10% / -3%		
Power consumption:	< 3.5 W / VA		
Output*:	2 relays (free of potential change-over contact)		
Max. contact voltage:	42V DC/AC peak		
Max. contact current:	1 A (resistive)		
Max. switching power:	15 W		
Output holdtime:	0.5 s		
Mounting height:	CONDOR: 3.5 m - 6 m; CONDOR XL: 2 m - 3.5 m - depending on size and nature of target		
Temperature range:	from -30 °C to + 60 °C (except for cold storage)		
Humidity:	0 - 95% non condensing		
Degree of protection:	IP65		
Dimensions:	127 mm (L) x 102 mm (H) x 96 mm (W)		
Materials:	ABS and polycarbonate		
Weight:	400 g		
Cable length:	10 m		
To also a La acco			

Technology:	microwave doppler radar	active infrared
Transmitter frequency/wavelength:	24.150 GHz	875 nm
Transmitter power density:	< 5 mW/cm ²	< 250 mW/m ²
Detection mode:	motion	motion & presence
Detection field:	CONDOR: 4 x 5 m; CONDOR XL: 4 x 2 m**	4 m x 4 m (emitting spots***)
Min. detection speed:	5 cm/s	5 cm/s to activate detection
Reaction time:	100 ms	250 ms
Tilt angle:	-8° - 22° (relative to sensor front face)	15° - 45°

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

- External electrical sources must be within specified voltages, max 15W and ensure double insulation from primary voltages.
- ** measured at 30°, field size 9, mounting height: 5 m, XL: 3.5 m
- *** zone detected by spotfinder, slightly bigger than actual detection field

LED- SIGNAL



Motion detection Value indication



Presence detection Parameter indication



Setup

ф-

LED flashes

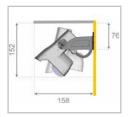


LED flashes quickly

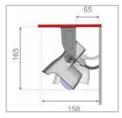


LED is off

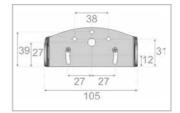
DIMENSIONS (in mm)



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.

^{*}In cold storage rooms (<0°), the functionality of the infrared part is affected by condensation, frost, mist etc. The radar part functions properly.

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 _



RESTORING TO FACTORY VALUES



SAVING AN ACCESS CODE

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

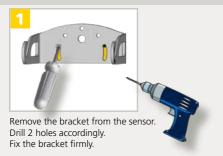


DELETING AN ACCESS CODE



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



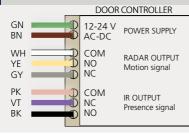


Position the sensor on the bracket and fasten the screws.

Mount the sensor securely.



2 WIRING



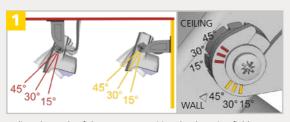
Connect the wires to the door controller. Choose between NO and NC contact.

NO POWER NO DETECTION DETECTION

NO POWER NO DETECTION DETECTION

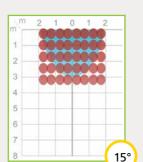


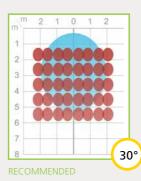
3 SENSOR ANGLE



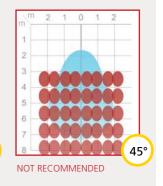


Adjust the angle of the sensor to position the detection fields.





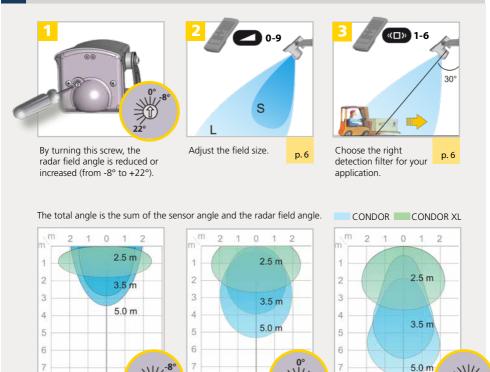
Tighten the screws firmly.



All detection field dimensions are measured in specific conditions (mounting height: 5 m, field size: 9).

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

4 RADAR FIELD



8

Sensor angle: 30°

Total angle: 41°

Radar field angle: +11°

All detection field dimensions are measured in specific conditions and with a field size value 9.

8

Sensor angle: 30°

Total angle: 30 °

Radar field angle: 0°

Total angle = sensor angle

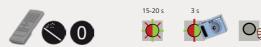
5 SETUP

8

Sensor angle: 30°

Total angle: 22°

Radar field angle: -8°



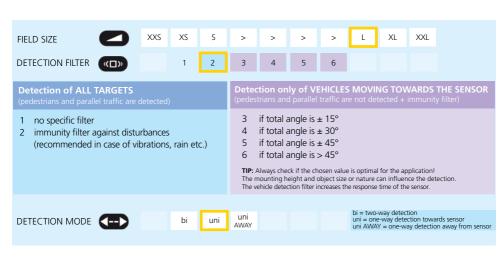
Launch a setup to make a reference picture.

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.

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









FACTORY VALUES

RESETTING TO FACTORY VALUES:



IMPORTANT: Always finish an adjustment session by launching a setup.



	The door remains closed and the LED is OFF.	The sensor power is off.	1 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.	1 Launch a new setup. Step out of the detection field!
	The door opens for no apparent reason.	The sensor detects raindrops or vibrations.	 Make sure the detection mode is unidirectional. Increase the detection filter value.
		The sensor is not installed properly.	1 Fasten the sensor firmly.
		In highly reflective environments, the sensor detects objects outside of its detection field.	1 Change the antenna angle. 2 Decrease the field size. 3 Increase the detection filter value.
	The vehicle detection filter is used, but pedestrians are still detected.	The chosen value is not optimal for the application.	Increase the detection filter value.Decrease the sensor angle.Increase the mounting height.
	The door opens and closes constantly.	The sensor is disturbed by the door motion or vibrations caused by the door motion.	 Make sure the sensor is fixed properly. Make sure the detection mode is unidirectional. Increase the sensor angle and/or radar angle. Increase the detection filter value. Reduce the field size.
	Sporadic presence detections for no reason.	The presence detection is disturbed by rain or lamps.	1 Set the IR-curtain immunity to value 3.
		The sensor is not installed properly.	1 Fasten the sensor firmly.
	The red LED is permanently ON after a setup.	The sensor has failed the IR-setup.	1 Launch a new setup. Step out of the detection field!
	The setup lasts more than 30 seconds.	The setup is disturbed.	1 Make sure the detection field is clear and launch a new setup.
		Another sensor causes interferences.	1 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.	 Enter the right access code. 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.	Check the batteries and change them if necessary.
		The remote control is badly pointed.	1 Point the remote control towards the sensor.
		The sensor is not powered.	1 Check the power supply of the sensor.



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BEA hereby declares that the CONDOR is in conformity with the basic requirements and the other relevant provisions of the directives 2014/53/EU (RED) 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.