CONDOR / CONDOR XL

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.

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



TECHNICAL SPECIFICATIONS

Supply voltage:	12V to 24V AC ±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:	CONDOR: 3.5 m - 6 m; CONDOR XL: 2 m - 3.5 m*			
Temperature range:	from -30 °C to + 60 °C			
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 lenght:	10 m			
Norm conformity:	R&TTE 1999/5/EC; EMC 2004/108/EC			
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

depending on size and nature of target
 measured at 30°, field size 9, mounting height: 5 m, XL: 3.5 m

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

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LED- SIGNAL



Motion detection Value indication



Presence detection Parameter indication



Setup



LED flashes



LED flashes quickly



LED is off

DIMENSIONS (in mm)



Wall mounting





Ceiling mounting

Bracket dimensions

SAFETY INSTRUCTIONS



Only trained and gualified 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



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.



WIRING



RADAR OUTPUT Motion signal	C = 3
IR OUTPUT	

POWER SUPPLY



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



NO POWER

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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.

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By turning this screw, the radar field angle is reduced or increased (from -8° to +22°).





CONDOR CONDOR XL

The total angle is the sum of the sensor angle and the radar field angle.



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



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.

POSSIBLE REMOTE CONTROL SETTINGS



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



\bigcirc	The door remains closed and the LED is OFF.	The sensor power is off.	1 Check the wiring and the power supply.
\bigcirc	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.	 Change the antenna angle. Decrease the field size. Increase the detection filter value.
\bigcirc	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.	1 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.

BEA hereby declares that the CONDOR is in conformity with the basic requirements and the other relevant provisions of the directives 1999/5/EC and 2004/108/EC. Angleur, April 2011 Jean-Pierre Valkenberg, authorized representative The complete declaration of conformity is available on our website: www.bea.be



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

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