

# FALCON

## OPENING SENSOR FOR INDUSTRIAL DOORS

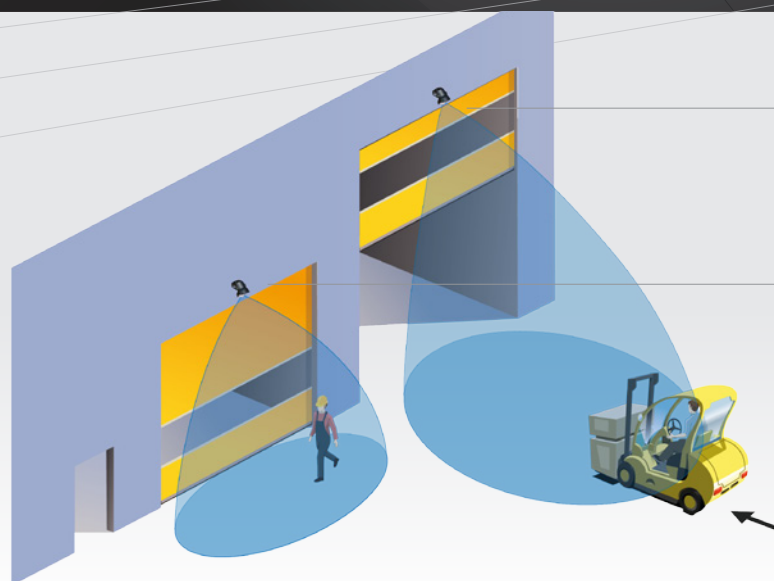
Commercial sheet



### THE ULTIMATE ACTIVATOR

#### DESCRIPTION

The **FALCON** is a unidirectional microwave motion sensor optimizing the performance of automatic doors. The FALCON detects every type of target and can filter people. Detecting vehicles only allows to reduce the door closing cycle by rejecting cross-traffic.

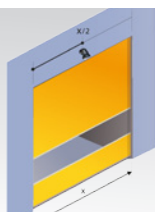


FALCON ■

FALCON XL ■

#### PERFORMANCE

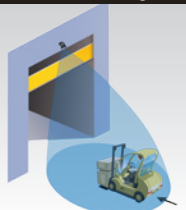
- Unidirectional motion detection for an optimum door closing cycle generating energy savings.
- Possibility of filtering people and detecting vehicles only.
- Possibility of filtering cross-traffic to eliminate unwanted detection.
- Immunity and stability thanks to the BEA planar antenna and the digital treatment of the signal.
- Sensor performance and precision depend on mounting height:  
FALCON with 9-patch antenna for mounting till 7 m.  
FALCON XL with 3-patch antenna for mounting till 3.5 m.



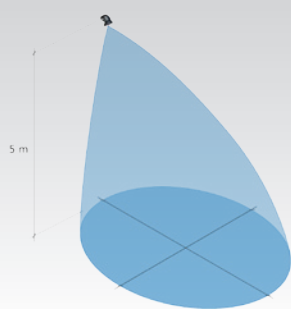
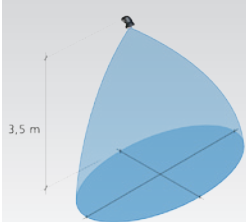
Recommended mounting for best performances



Cross-traffic filtering



People filtering and detection of vehicles only

FALCON detection area  
4 m x 5 m @ 5 m\*FALCON XL detection area  
4 m x 2 m @ 3,5 m\*

## APPLICATIONS

- Big doors (till 7 m) : **FALCON**.
- Small doors (till 3.5 m): **FALCON XL**.

## DESIGNED FOR INDUSTRIAL ENVIRONMENTS

- Rugged housing adapted to industrial applications.
- Degree of protection: IP65.
- Immunity against vibrations and environment interferences.

## EASE OF INSTALLATION

- Simple Installation (plug and play).
- Flexibility with remote control and push-buttons.

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave doppler radar
Radiated frequency	24.150 GHz
Transmitter radiated power	< 20 dBm EIRP
Radiated power density	< 5 mW/cm <sup>2</sup>
<b>Detection mode</b>	Movement
<b>Detection zone</b>	
FALCON	4 m x 5 m *
FALCON XL	4 m x 2 m *
<b>Tilt angles</b>	0° to 180° vertical
<b>Output</b>	Relay (free of potential change-over contact)
Max. contact voltage	42 V AC/DC
Max. contact current	1A (resistive)
Max. switching power	30W (DC) / 60 VA (AC)
<b>Output hold time</b>	0.5 s - 9 s (adjustable)
<b>Reaction time</b>	100 ms
<b>Min. detection speed</b>	5 cm/s (Measured in optimal conditions)
<b>LED signals</b>	green : value indication red : detection state, parameter indication
<b>Mains frequency</b>	50 to 60 Hz
<b>Supply voltage</b>	12V to 24V AC ±10% 12V to 24V DC +30% / -10%
<b>Max power consumption</b>	< 2 W
<b>Mounting height</b>	
FALCON	3.5 m - 7 m
FALCON XL	2 m - 3.5 m
<b>Dimensions</b>	127 mm (L) x 102 mm (H) x 96 mm (W)
<b>Materials</b>	ABS and polycarbonate
<b>Colour</b>	black
<b>Temperature range</b>	from -30°C to +60°C
<b>Degree of protection</b>	IP65
<b>Humidity</b>	0-95% non condensing
<b>Norm of conformity</b>	EMC: 2004/108/EC R&TTE: 1999/5/EC

*Specifications are subject to change without prior notice.*

*\* Measured at 30°, area size 9, mounting height : 5 m, XL : 3.5 m*

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