



# FALCON

Opening sensor for industrial doors



## APPLICATIONS



## TECHNOLOGY

Radar

## DESCRIPTION

The **FALCON** is a unidirectional 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. Mounted at 7 m the FALCON has a detection field of 4 x 5 m. At 3.5 m, the FALCON XL detects in an area of 4 x 2 m.

## VIDEO

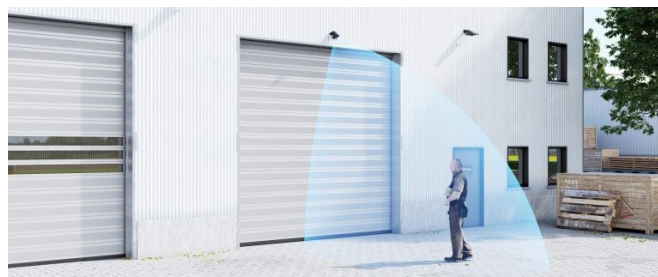


Discover the product video on our youtube channel **BEA Sensors Europe**  
<https://bit.ly/2MW5knm>



### Energy-saving

Unidirectional motion detection for an optimum door closing cycle generating energy savings.



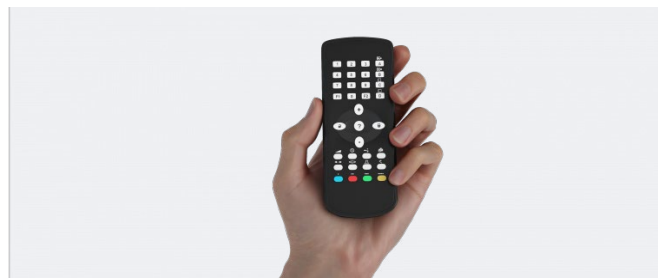
### Pedestrian filter

Possibility of filtering pedestrians and detecting vehicles only.



### Cross-traffic filter

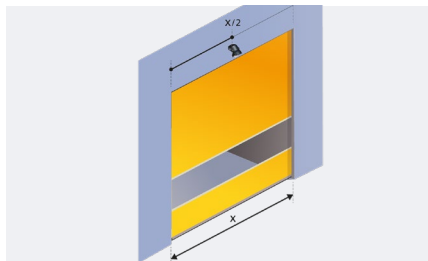
Possibility of filtering cross-traffic to eliminate unwanted detection.



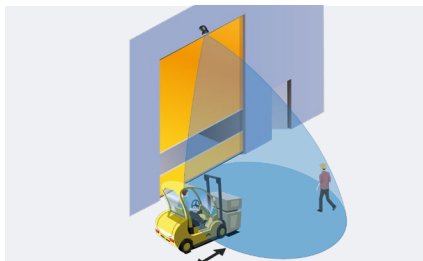
### Plug & play

Adjustment of basic functions with push buttons or remote control.

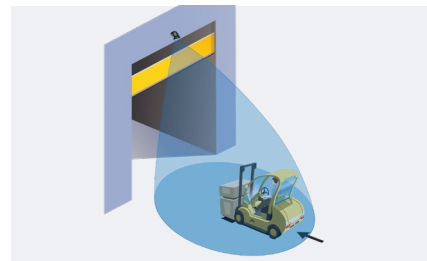
## APPLICATIONS



Recommended mounting for best performances



Cross-traffic filtering



Pedestrian filtering and detection of vehicles only

## ACCESSORIES



### BEA REMOTE CONTROL

Universal remote control for the adjustments of our sensors



### UNIVERSAL MOUNTING BA

Universal mounting bracket



### LZRO-WIDESCAN RETROFIT ADAPTER

Wiring accessory to replace a FALCON with a WIDESCAN for similar functions

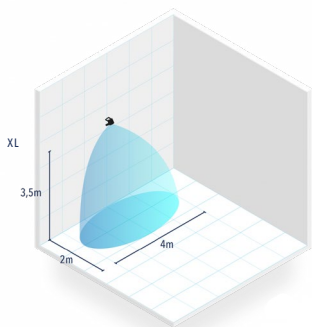
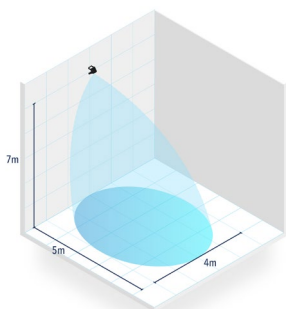
## INSTALLATION

- Simple «plug and play» installation.
- Flexible operation thanks to the remote control and the spotfinder.

## VERSIONS

- FALCON: 9-patch antenna for mounting till 7 m.
- FALCON XL: 3-patch antenna for mounting till 3.5 m.

## TECHNICAL SPECIFICATIONS



Technology	microwave doppler radar
Transmitter frequency	24.150 GHz
Transmitter radiated power	< 20 dBm EIRP
Transmitter power density	< 5 mW/cm <sup>2</sup>
Detection mode	motion
Detection zone	FALCON: 4 x 5 m ; FALCON XL: 4 x 2 m (typical at 30° and field size 9)
Min. detection speed	5 cm/s
Supply voltage	12V to 24V AC ±10%; 12V to 24V DC +30% / -10%
Mains frequency	50 to 60 Hz
Max power consumption	< 2 W
Output	relay (free of potential change-over contact)
Max. contact voltage	42V AC/DC
Max. contact current	1A (resistive)
Max. switching power	30W (DC) / 60VA (AC)
LED-signal	red: detection state, parameter indication; green: value indication
Mounting height	FALCON: 3,5 m - 7m FALCON XL: 2 m - 3,5 m
Degree of protection	IP65
Temperature range	from -30 °C to + 60 °C
Dimensions	127 mm (L) x 102 mm (H) x 96 mm (W)
Tilt angles	0° to 180° vertical
Materials	ABS and polycarbonate
Weight	400 g
Cable length	10 or 15 m
Norm conformity	EN 300 440-2 V1.4.1, EN 301 489-1 V1.9.2, EN 301 489-3 V1.6.1, EN 62311, EN 62479

**DISCLAIMER** Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers./BEA has the right without liability to change descriptions and specifications at any time.

[WWW.BEASENSORS.COM](http://WWW.BEASENSORS.COM)



BEA s.a. / LIEGE Science Park / Allée des Noisetiers 5 / 4031 Angleur • BELGIUM  
T +32 (0)4 361 65 65 / F +32 (0)4 361 28 58 / E info-eu@beasensors.com

A Halma company