



FALCON

OPENING SENSOR
FOR INDUSTRIAL DOORS

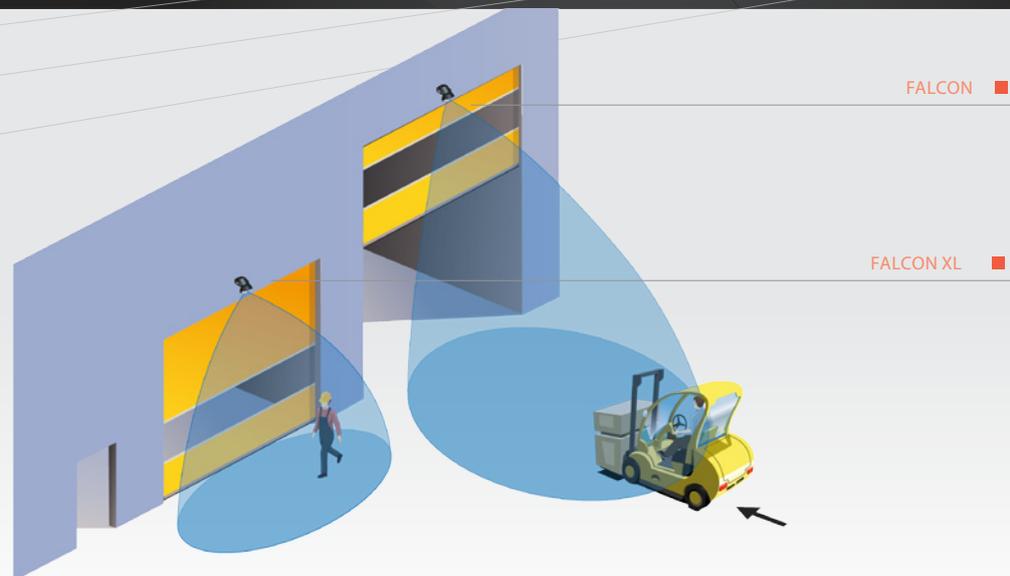
Commercial sheet



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.



PERFORMANCE

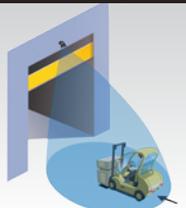
- Unidirectional motion detection for an optimum door closing cycle generating energy savings.
- Possibility of filtering people and detecting vehicles only.
- Possibility of filtering cross-traffic to eliminate unwanted detection.
- Immunity and stability thanks to the BEA planar antenna and the digital 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.



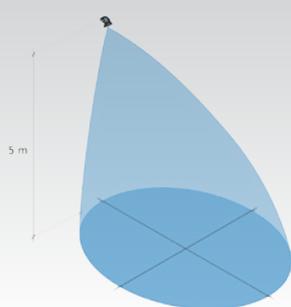
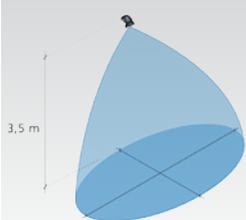
Recommended mounting for best performances



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

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