

FALCON

ACTIVATION SENSORS FOR
INDUSTRIAL DOORS



INTELLIGENCE & DURABILITY, ALL IN ONE ENCLOSURE

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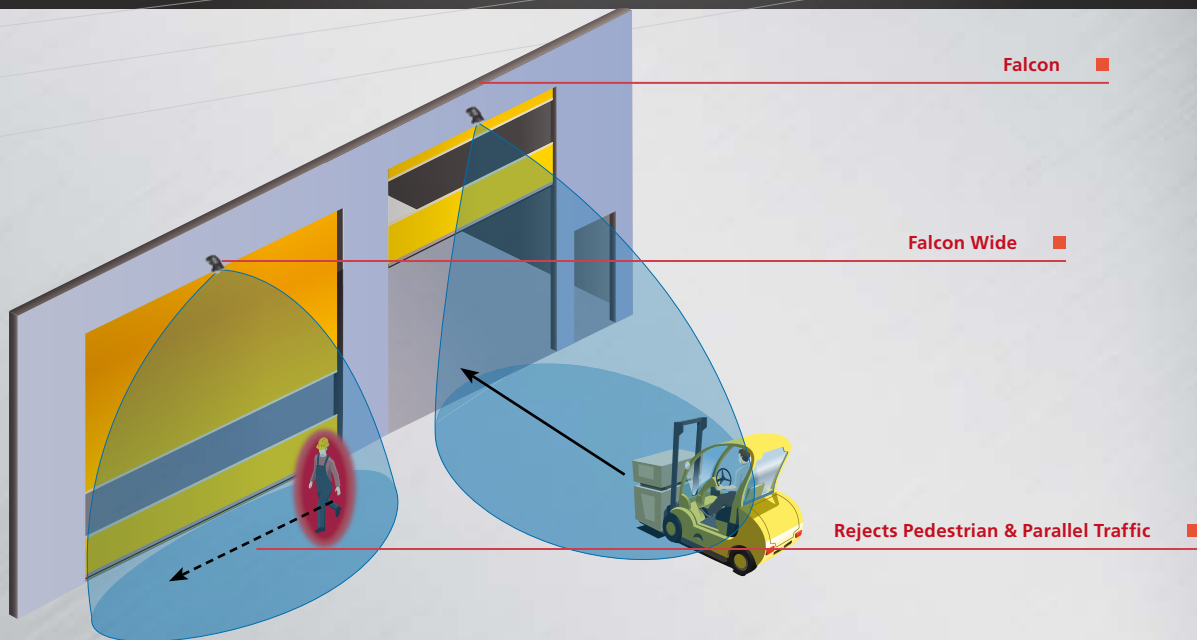


DESCRIPTION

The **FALCON** is a uni- and bi-directional motion sensor optimizing the performance of automatic doors. The Falcon detects moving objects and can reject pedestrian traffic and parallel traffic.

By detecting vehicles and rejecting parallel traffic, the Falcon reduces door cycling and helps save energy.

Pedestrian Rejection Capable

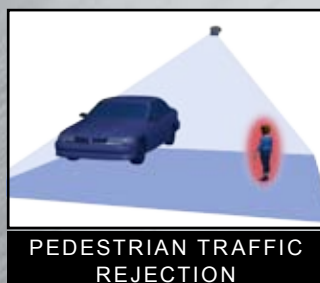
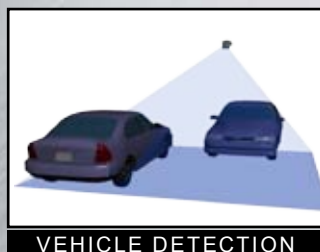
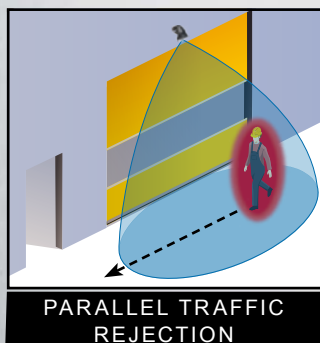
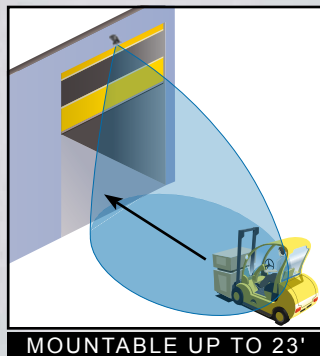


FEATURES

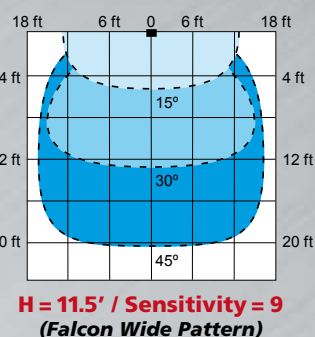
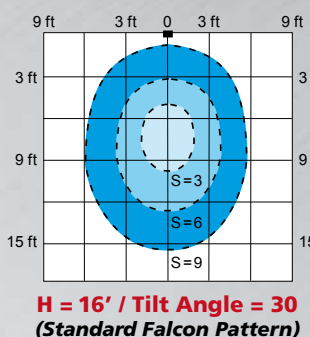
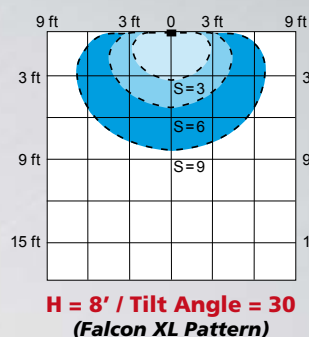
- Uni- and bi-directional microwave motion detection
- Multiple models and settings allow the Falcon family to cover various applications (*explosion-proof housing available*)
- Can reject pedestrian and parallel traffic
- Supplied mounting bracket allows multiple mounting options from 0° to 180° tilt
- A telescopic, heavy-duty mounting bracket offers extension up to 3-feet (*optional*)
- NEMA 4 rated enclosure provides protection against dust, cleaning agents and environmental conditions

NEMA 4
RATED ENCLOSURE

BEA
INDUSTRIAL



DETECTION ZONES (S=SENSITIVITY)



TECHNICAL SPECIFICATIONS

Technology	K-Band Microwave Doppler Radar
Radiated Frequency	24.125 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm ²
Detection Mode	Motion
Detection Zone (WxD)	
Falcon (narrow pattern)	13 ft x 16 ft; @ 16 ft
Falcon XL (wide pattern)	13 ft x 6.5 ft; @ 8.2 ft
Falcon Wide (extra wide pattern)	30 ft x 11 ft; @ 21 ft
Tilt Angles	0° to 180° when mounted vertically
Output	Relay (free of potential change-over contact)
Maximum Contact Voltage	42 V AC/DC
Maximum Contact Current	1 A (resistive)
Maximum Switching Power	30 W (DC); 60 VA (AC)
Output Hold Time	0.5 to 9 seconds (adjustable)
Reaction Time	100 ms
Minimum Detection Speed	2.2 in/s
LED Signals	Green: Value indication Red: Detection state & parameter indication
Mains Frequency	50 to 60 Hz
Supply Voltage	12 to 24 VAC; ±10% 12 to 24 VDC; +30% / -10%
Maximum Power Consumption	< 2 W
Mounting Height	
Falcon	11.5 to 23 ft
Falcon XL	6.5 to 11.5 ft
Falcon Wide	11.5 to 21 ft
Dimensions (WxLxH)	4.14 x 6.54 x 3.82 inches
Materials	ABS & Polycarbonate
Temperature Range	-22° F to +140° F
Degree of Protection	NEMA 4 (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.

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