

FALCON EX

EXPLOSION-PROOF
ACTIVATION SENSORS FOR
INDUSTRIAL DOORS



INTELLIGENCE & DURABILITY, ALL-IN-ONE ENCLOSURE

EN

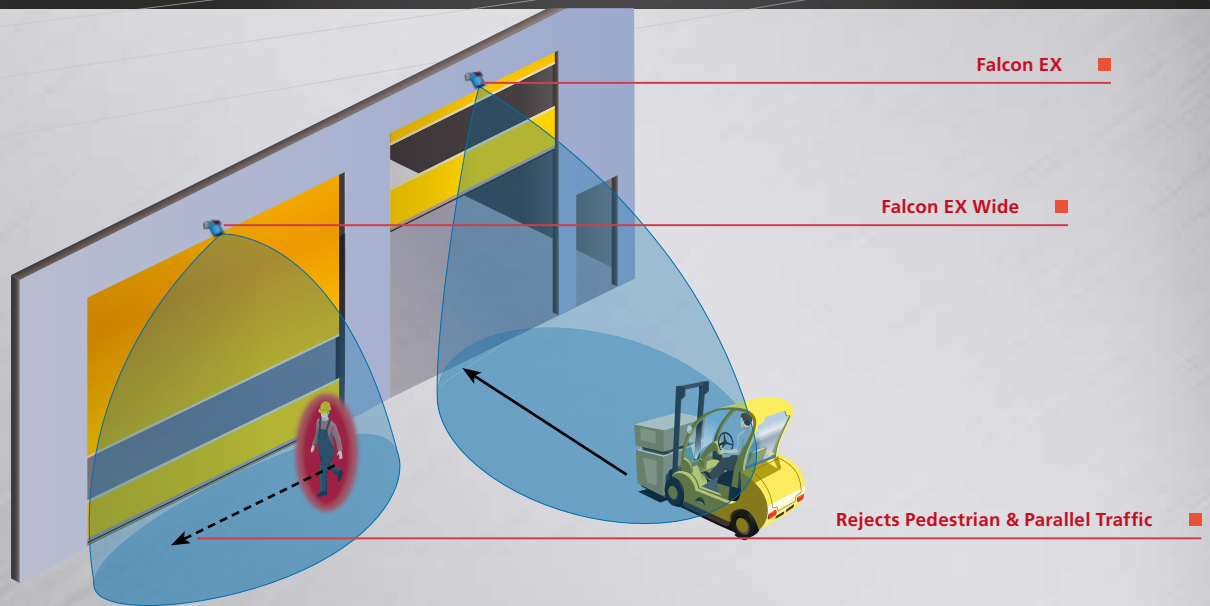


DESCRIPTION

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

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

Pedestrian Rejection Capable

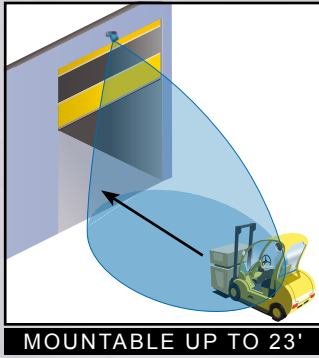


FEATURES

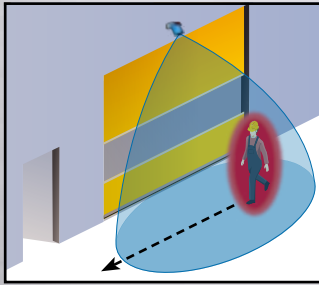
- Uni- and bi-directional microwave motion detection
- Multiple models and settings allow the Falcon family to cover various applications
- Can reject pedestrian and parallel traffic
- Supplied mounting bracket allows multiple mounting options from 0° to 180° tilt
- A telescopic, heavy-duty mounting bracket offers extension up to 3-feet (optional)
- Explosion-proof (intrinsically safe) enclosure prevents sparks or flames

NEMA
RATED ENCLOSURE

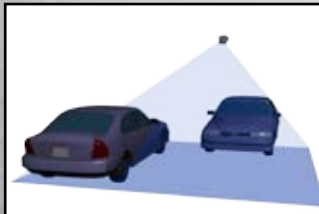
BEA
INDUSTRIAL



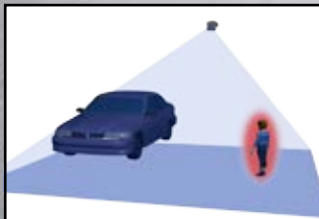
MOUNTABLE UP TO 23'



PARALLEL TRAFFIC REJECTION



VEHICLE DETECTION

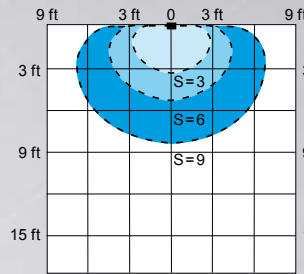


PEDESTRIAN TRAFFIC REJECTION

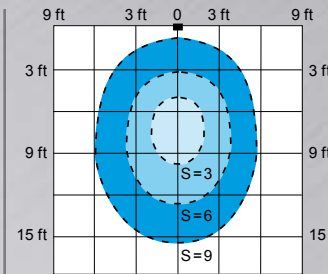


**FALCON;
FALCON XL**

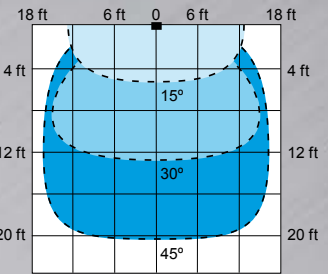
DETECTION ZONES (S=SENSITIVITY)



**H = 8' / Tilt Angle = 30°
(Falcon EX XL Pattern)**



**H = 16' / Tilt Angle = 30°
(Standard Falcon EX Pattern)**



**H = 11.5' / Sensitivity = 9
(Falcon EX Wide Pattern)**

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 EX (narrow pattern) | 13 ft x 16 ft; @ 16 ft |
| Falcon EX XL (wide pattern) | 13 ft x 6.5 ft; @ 8.2 ft |
| Falcon EX Wide (extra wide pattern) | 30 ft x 11 ft; @ 21 ft |
| Tilt Angles | -90° to +30° in elevation |
| 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 upon query 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 EX | 11.5 to 23 ft |
| Falcon EX XL | 6.5 to 11.5 ft |
| Falcon EX Wide | 11.5 to 21 ft |
| Dimensions (Housing & Bracket) | 9 in (D) x 7 in (W) x 5 in (H) |
| Housing / Bracket Material | Copper-free Aluminum / Aluminum |
| Temperature Range | -22° F to +122° F (-30° C to +60° C) |
| Degree of Protection | UL Class I, Groups B,C,D UL Class II, Groups E,F,G UL Class III CENELEC: EExd IIC, IP66 NEMA 4x, 7BCD, 9EFG |
| Norm of Conformity | EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC |

Specifications are subject to change without prior notice.

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