BEA

FALCON EX

MOTION SENSOR WITH EXPLOSION-PROOF /
FLAME-PROOF HOUSING

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TECHNOLOGY

CERTIFICATIONS

FC

DESCRIPTION

BEA's **FALCON EX** combines a microwave activation sensor with an explosion-proof / flame-proof housing, which is ideal for use in unique environments such as chemical manufacturing, petroleum refining and agriculture.

The **FALCON EX** can be mounted from 11 ½ feet to 23 feet to fit any industrial application. For lower mounting heights, BEA's **FALCON EX XL** can be mounted from 6 ½ feet to 11 ½ feet. The **FALCON EX WIDE** is available for wide

detection fields, with a mounting height range of 11 ½ feet to 21 feet.

The explosion-proof / flame-proof housing is a NEMA 4X, water-proof rated enclosure designed as an IP66 housing. This housing achieves UL Class I, Div. 1, Groups B, C, D; Class II, Div. 1 & 2, Groups E, F, G; and Class III*.

* Adalet / Scott Fetzer Co., UL Listing #E81696

Energy Savings
Bidirectional, unidirectional approach and unidirectional depart microwave detection options
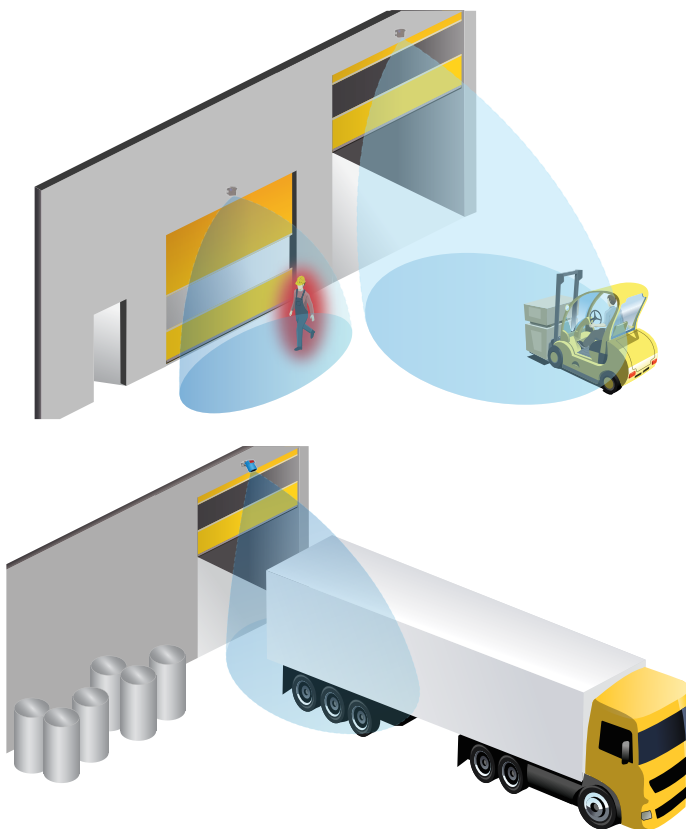
Adjustable Detection Settings
Six modes of detection filtering for pedestrian and parallel traffic rejection
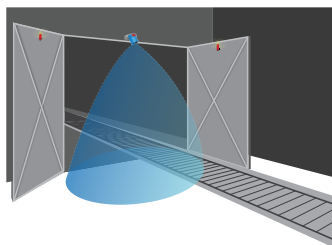

Easy To Program
Remote control programming enables user to quickly and safely make changes from the ground

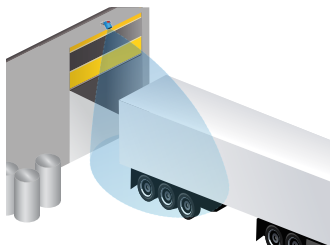### Explosion-proof And Highly Durable
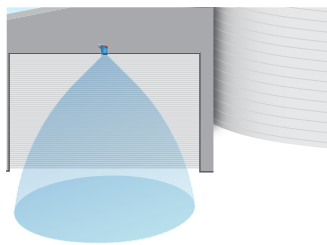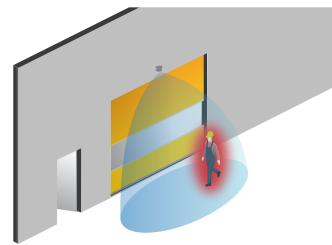Explosion-proof / flame-proof housing weighs 11 pounds

APPLICATIONS

Mine Door

Petroleum Refinery

Grain Elevator

Pedestrian & Parallel Traffic Rejection

TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm²
Detection Mode	Motion
Detection Zone	
FALCON EX	13' × 16' @ 16'
FALCON EX XL	13' × 6½' @ 8⅕'
FALCON EX WIDE	30' × 11' @ 21'
	Typical at 30° and field size 9
Tilt Angles	-90 – 30° in elevation
Output	Relay (free of potential change-over contact)
Max. Contact Voltage	42 VAC / VDC
Max. Contact Current	1 A (resistive)
Max. Switching Power	30 W (DC); 60 VA (AC)
Minimum Detection Speed	2 in / s
Mains Frequency	50 – 60 Hz
Supply Voltage	12 – 24 VAC; ±10%
	12 – 24 VDC; 30% / -10%
Maximum Power Consumption	< 2 W
Mounting Height	
FALCON EX	11½ – 23'
FALCON EX XL	6½ – 11½'
FALCON EX WIDE	11½ – 21'
Dimensions	
Housing & Bracket	5½" (L) × 7½" (W) × 9" (H)
Electrical Access	
NPT Pipe Thread	¾"
Weight	10 lbs
Cable Length	See User's Guide for reference
	(Housing); Powder-coated steel (Bracket)
Materials	Copper-free Aluminum / Aluminum
Temperature Range	-22 – 140 °F
Housing Certification*	See User's Guide
Norm Conformity	EMC: 2004 / 108 / EC
	R&TTE: 1999 / 5 / EC

*Adalet / Scott Fetzer Co., UL Listing #E81696

PRODUCT SERIES

10FALCONEX100
Standard mounting heights w/100 ft cable

10FALCONEXXL100
Low mounting heights w/100 ft cable

10FALCONEXW100
Wide detection fields w/100 ft cable

10REMOTE
BEA universal remote control

10FALCONEX
w/30 ft cable

10FALCONEXXL
w/30 ft cable

10FALCONEXW
w/30 ft cable

10WBA
Universal mounting bracket arm

10WBAMOUNT
Universal mounting bracket plate

FALCON EX MOTION SENSOR WITH EXPLOSION-PROOF / FLAME-PROOF HOUSING

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