

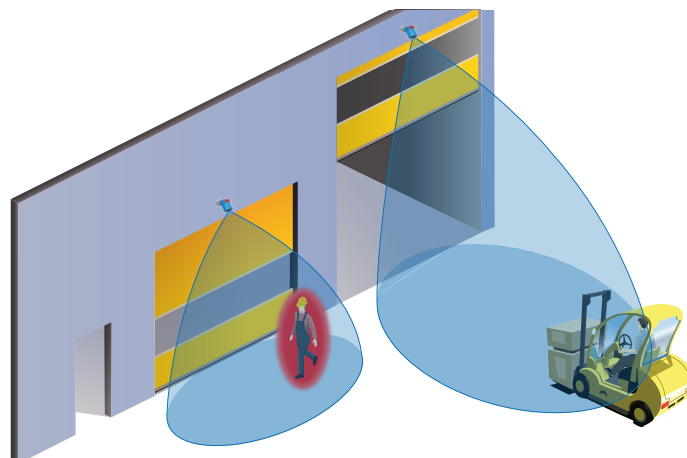
FALCON EX

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MOTION SENSOR WITH EXPLOSION-PROOF / FLAME-PROOF HOUSING



PRIMARY APPLICATIONS



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 11.5 feet to 23 feet to fit any industrial application. For lower mounting heights, BEA's Falcon EX XL can be mounted from 6.5 feet to 11.5 feet. The Falcon EX Wide is available for wide detection fields, with a mounting height range of 11.5 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*.

FEATURES & BENEFITS

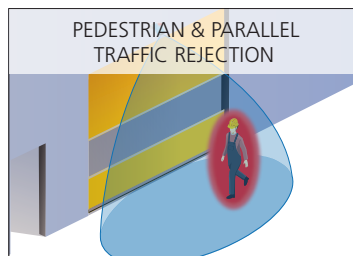
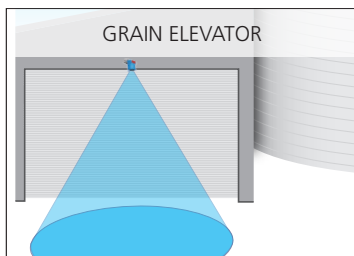
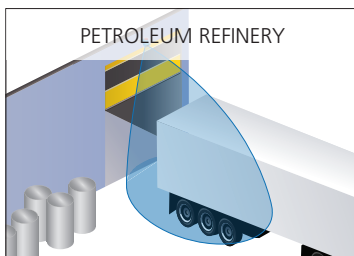
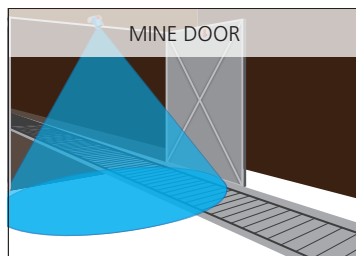
- Bidirectional, unidirectional approach and unidirectional depart microwave detection options
- Six modes of detection filtering for pedestrian and parallel traffic rejection
- Remote control programming enables user to quickly and safely make changes from the ground
- Explosion-proof / flame-proof housing weighs 11 pounds

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



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APPLICATIONS

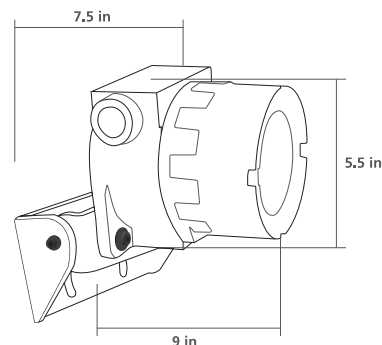


TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm ²
Detection Mode	Motion
Detection Zone (WxD)	
Falcon EX	156 in × 192 in @ 192 in (13 ft × 16 ft @ 16 ft)
Falcon EX XL	156 in × 78 in @ 98.4 in (13 ft × 6.5 ft @ 8.2 ft)
Falcon EX Wide	360 in × 132 in @ 252 in (30 ft × 11 ft @ 21 ft)
	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
LED Signals	
Green	Value indication
Red	Detection state & parameter indication
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	138 in – 276 in (11.5 ft – 23 ft)
Falcon EX XL	78 in – 138 in (6.5 ft – 11.5 ft)
Falcon EX Wide	138 in – 252 in (11.5 ft – 21 ft)
Dimensions (Housing & Bracket)	7.5 in (W) × 5.5 in (H) × 9 in (D)
Electrical Access	
NPT Pipe Thread	¾ in
Weight	11 lbs
Cable Length	100 ft or 30 ft
Housing / Bracket Material	Copper-free Aluminum / Aluminum
Temperature Range	–22 °F – 140 °F
Degree of Protection (Housing)*	UL Class I, Div. 1, Groups B, C, D Class II, Div. 1 & 2, Groups E, F, G Class III CENELEC: EExd IIC, NEMA 4X, IP66
Norm Conformance	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC FM: Approved Instrument Housing

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

DIMENSIONAL DRAWINGS



RELATED PRODUCTS



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
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