



FALCON EX

MOTION SENSOR WITH EXPLOSION-PROOF /
FLAME-PROOF HOUSING



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TECHNOLOGY



CERTIFICATIONS



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

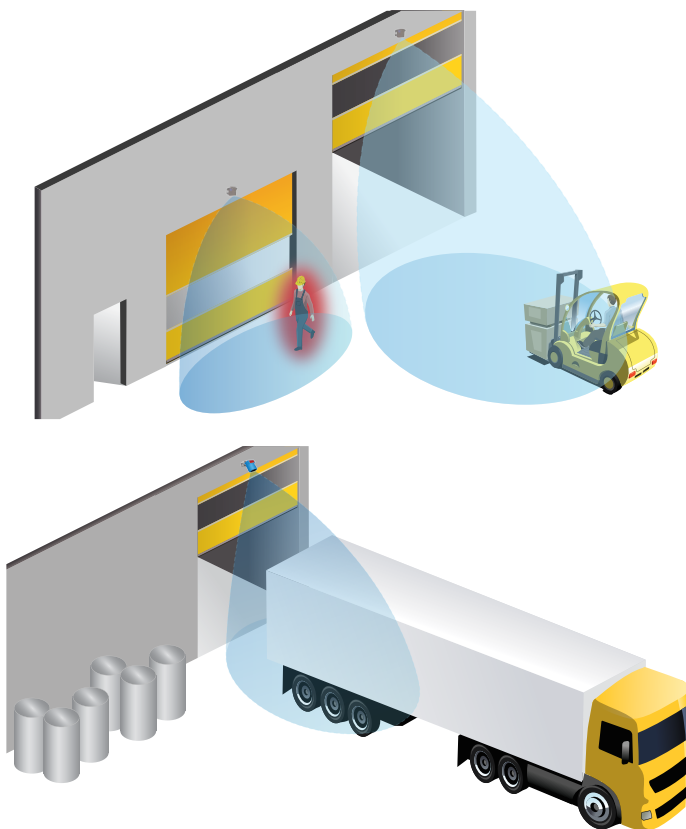
Six modes of detection filtering for pedestrian and parallel traffic rejection

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



TECHNICAL SPECIFICATIONS

TECHNOLOGY / PERFORMANCE

Technology:	microwave doppler radar
Mounting height:	
EX	11.5 – 23 ft
EX XL	6.5 – 11.5 ft
EX WIDE	11.5 – 21 ft
Detection zone:	(typical at 30° and field size 9)
EX	13 x 16 ft @ 16 ft
EX XL	13 x 6.5 ft @ 8.2 ft
EX WIDE	30 x 11 ft @ 21 ft
Min. detection speed:	2 in/s (measured in optimal conditions)
Tilt adjustment angle:	-90 – 30° in elevation

ELECTRICAL

Supply voltage:	12 – 24 VAC ±10% 12 – 24 VDC +30% / -10%
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm ²
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)
Mains frequency:	50 – 60 Hz
Max. power consumption:	< 2W

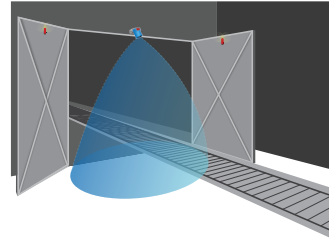
PHYSICAL

Temperature range:	-22 – 140 °F
Housing certification:	(Adalet / Scott Fetzer Co., UL Listing # E81696) UL Class I, DIV 1 Group BCD; Class II, DIV 1 Group EFG; Class III; NEMA Type 4X; IP66; UL 1203; CSA C22.2 No.30&CSA C22.2 No.25 FM 3615; ATEX (FLAMEPROOF - DEMKO), Ex d IIC, IEC60529
Dimensions:	9 in (L) x 7.5 in (W) x 5.5 in (H)
Materials:	Copper-free aluminum (housing) Powder-coated steel (bracket)
Weight:	11 lbs
Cable length:	100 ft
Cable diameter:	0.216" (5-conductor cable)
Electrical Access:	¾" NPT pipe thread

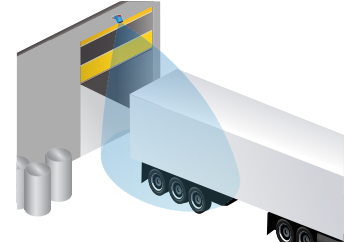
COMPLIANCE

Compliance	R&TTE 1999/5/EC; EMC 2004/108/EC
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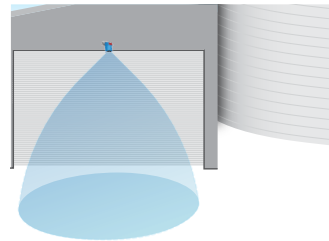
APPLICATIONS



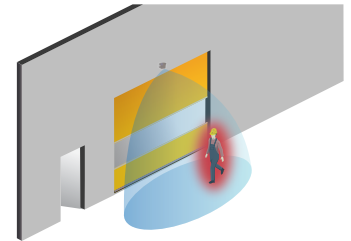
Mine Door



Petroleum Refinery

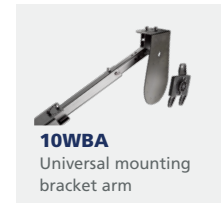
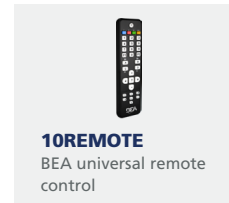


Grain Elevator



Pedestrian & Parallel Traffic Rejection

PRODUCT SERIES



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