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FALCON FAMILY

MOTION SENSOR FOR INDUSTRIAL DOORS,
GATES & WARNING INDICATION

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TECHNOLOGY



CERTIFICATIONS



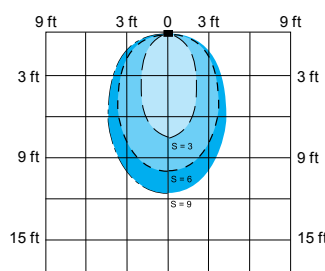
DESCRIPTION

BEA's **FALCON FAMILY** of sensors is the premier microwave activation solution for indoor and outdoor industrial applications. The family includes the **FALCON**, **FALCON XL** (extra low mount) and **FALCON WIDE** (for wide detection areas).

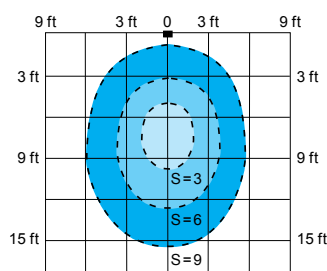
The sensor is capable of providing pedestrian and parallel traffic rejection, reducing unwanted detections and door cycles.

BEA's **FALCON FAMILY** is ideal for automatic industrial doors, vehicle gates / barriers, vehicle detection, loading docks or any other industrial application where motion detection is required.

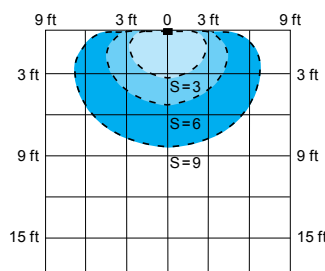
Housed in a IP65 rated enclosure, the **FALCON FAMILY** is designed to operate in harsh environments.



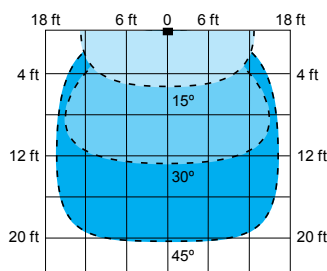
H=11' / Tilt Angle=30



H = 16' / Tilt Angle = 30
(Standard FALCON Pattern)



H = 8' / Tilt Angle = 30
(FALCON XL Pattern)



H = 11.5' / Sensitivity = 9
(FALCON Wide Pattern)

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

Remote Control Adjustments

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

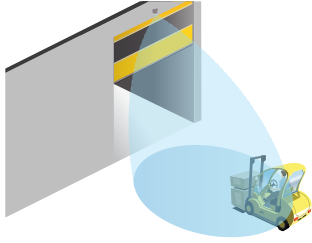
Adjustable Angle

Tilt angle from 0 to 180°

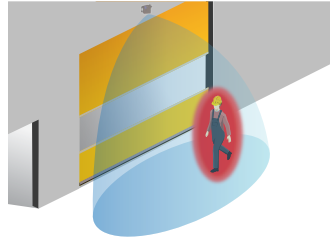
Rated For Harsh Environments

IP65 rated enclosure

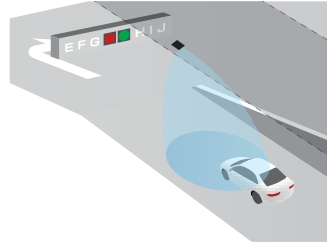
APPLICATIONS



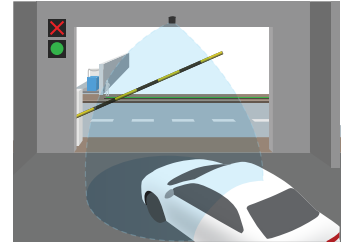
Factory Entrances



Pedestrian & Parallel Traffic Rejection



Parking Garage Detection



Barrier Arm Activation

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	
FALCON	13' x 16' @ 16'
FALCON XL	13' x 6 1/2' @ 8 1/2'
FALCON WIDE	30' x 11' @ 21'
	Typical at 30° and field size 9
Tilt Angles	0 – 180°
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%
Power Consumption	< 2 W
Mounting Height	
FALCON	11 1/2 – 23'
FALCON XL	6 1/2 – 11 1/2'
FALCON WIDE	11 1/2 – 21'
Dimensions	3 3/4" (W) x 4" (H) x 5" (L)
Material	ABS & Polycarbonate
Temperature Range	-22 – 140 °F
Degree of Protection	IP65
Norm Conformity	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC

*Measured in optimal conditions

PRODUCT SERIES



10FALCON
Standard mounting heights



10FALCONXL
Low mounting heights



10FALCONW
Wide detection fields



10FALCONEX
Explosion proof motion sensor series



10INDBRACKET
Adjustable mounting bracket



10MINIBRACKET
Short adjustable mounting bracket



10REMOTE
BEA universal remote control



10WBA
Universal mounting bracket arm



10WBAMOUNT
Universal mounting bracket plate

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