



# FALCON FAMILY

MOTION SENSOR FOR INDUSTRIAL DOORS,  
GATES & WARNING INDICATION



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## TECHNOLOGY



## CERTIFICATIONS



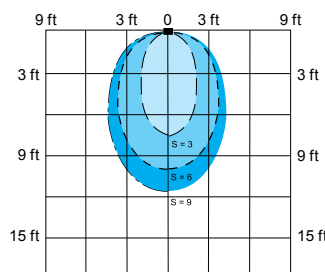
## DESCRIPTION

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).

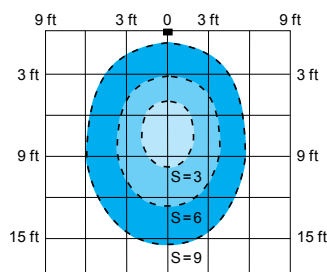
The sensor is capable of providing pedestrian and parallel traffic rejection, reducing unwanted detections and door cycles.

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.

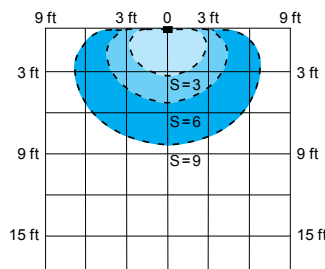
Housed in a IP65 rated enclosure, the **FALCON FAMILY** is designed to operate in harsh environments.



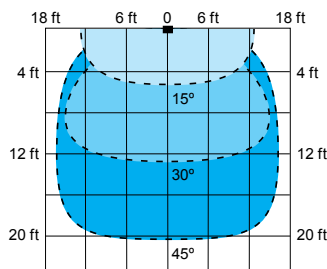
**H=11' / Tilt Angle=30**



**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

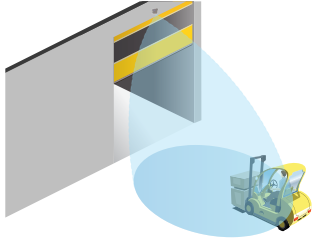
## Adjustable Angle

Tilt angle from 0 to 180°

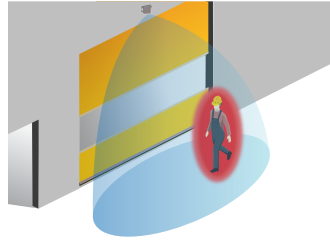
## Rated For Harsh Environments

IP65 rated enclosure

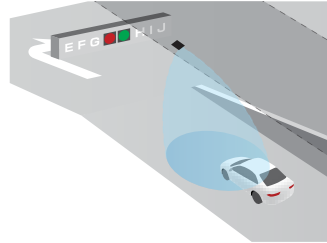
## APPLICATIONS



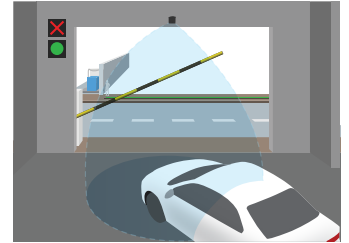
Factory Entrances



Pedestrian & Parallel Traffic Rejection



Parking Garage Detection



Barrier Arm Activation

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	Microwave Doppler Radar
Radiated Frequency	24.150 GHz
Transmitter Radiated Frequency	< 20 dBm EIRP
Radiated Power Density	< 5 mW / cm <sup>2</sup>
<b>Detection Mode</b>	Motion
<b>Detection Zone</b>	
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
<b>Tilt Angles</b>	0 – 180°
<b>Output</b>	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)
<b>Minimum Detection Speed</b>	2 in / s*
<b>Mains Frequency</b>	50 – 60 Hz
<b>Supply Voltage</b>	12 – 24 VAC; ±10% 12 – 24 VDC; 30% / -10%
<b>Power Consumption</b>	< 2 W
<b>Mounting Height</b>	
FALCON	11 1/2 – 23'
FALCON XL	6 1/2 – 11 1/2'
FALCON WIDE	11 1/2 – 21'
<b>Dimensions</b>	3 3/4" (W) x 4" (H) x 5" (L)
<b>Material</b>	ABS & Polycarbonate
<b>Temperature Range</b>	-22 – 140 °F
<b>Degree of Protection</b>	IP65
<b>Norm Conformity</b>	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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