



BEA FALCON FAMILY

FOR INDOOR
& OUTDOOR
APPLICATIONS

RELIABLE
MOTION
DETECTION

WITHSTANDS
HARSH
ENVIRONMENTS

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).

- **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**

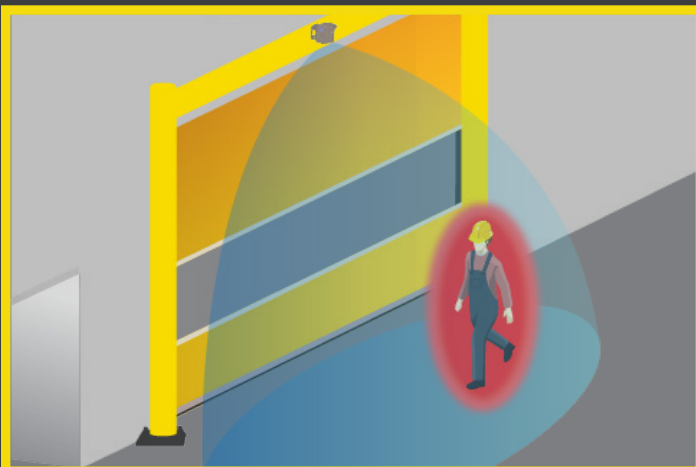
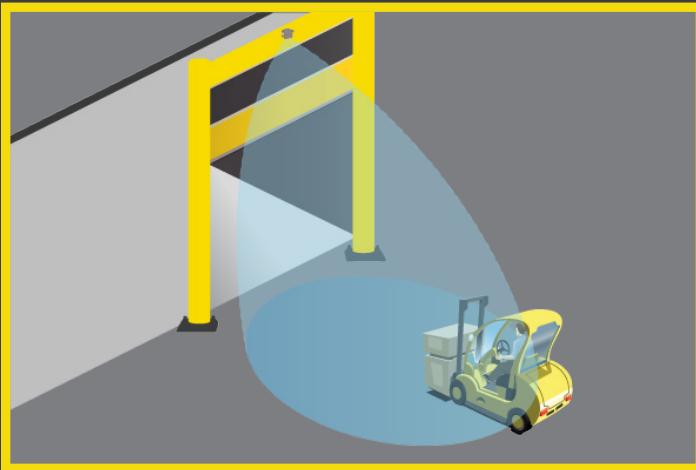
Remote control programming enables user to quickly and safely make changes from the ground

- **ADJUSTABLE ANGLE**

Tilt angle from 0 to 180°

- **RATED FOR HARSH ENVIRONMENTS**

IP65 rated enclosure



[866]825-8659

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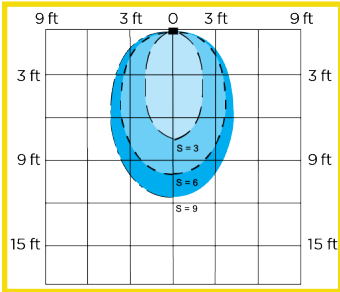
TECHNICAL SPECIFICATIONS

ideaSHIELD®

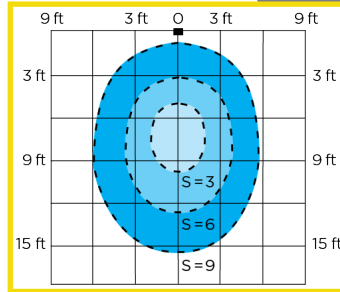


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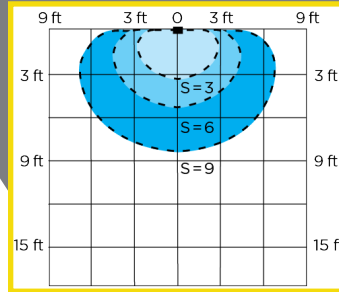
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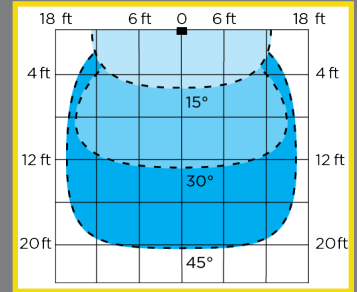
H = 11' / Tilt Angle = 30



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



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



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

TECHNOLOGY

RADIATED FREQUENCY 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 13' x 16' @ 16'
FALCON XL 13' x 6 1/2' @ 8 1/5'
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



10REMOTE

BEA universal remote

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