



PHOENIX EX™

MOTION SENSOR WITH EXPLOSION-PROOF / FLAME-PROOF HOUSING FOR INTRUSION PROTECTION



DESCRIPTION

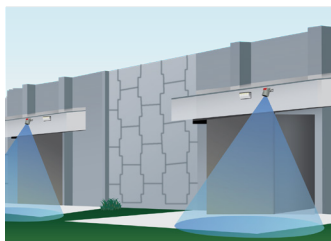
BEA's **PHOENIX EX™ Family** combines a microwave motion detection sensor in an explosion-proof / flame-proof housing, which is ideal for use in unique environments such as chemical manufacturing, petroleum refining and military facilities.

The **PHOENIX EX™ Family** is designed to detect within a desired area for security or intrusion detection, warning indication and automation. When tied into a security system, the **PHOENIX EX™ Family** offers a monitoring feature via end-of-line resistors. These resistors provide unique output states, which allow differentiation between an motion detection signal and/or an interruption in functionality due to tampering of the device.

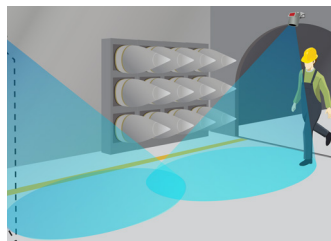
The explosion-proof / flame-proof housing is a waterproof-rated enclosure designed as an IP66 housing. This housing achieves UL Class I, Div. 1, Groups B, C, D; Class II, Div. 1 & 2, Groups E, F, G; and Class III*.

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

APPLICATIONS

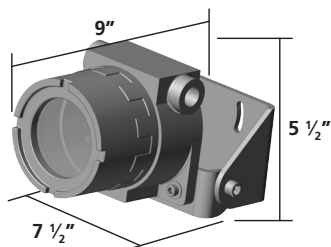


Military Bunkers



Munitions Storage

DIMENSIONS



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TECHNICAL SPECIFICATIONS

TECHNOLOGY / PERFORMANCE

Technology: microwave doppler radar

Mounting height:

EX	11 1/2' – 23'
EX XL	6.5 – 11 1/2'
EX WIDE	11 1/2' – 21'

Detection zone:

	(typical at 30° and field size 9)
EX	at 16': 13 x 16'
EX XL	at 8 3/64': 13 x 6 1/2'
EX WIDE	at 21': 30 x 11'

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/cm²

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)

Output*: end-of-line resistor(s)**

max. switching power	1/8 Watt
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Mains frequency: 50 – 60 Hz

Max. power consumption: < 2W

Anti-tamper (EX versions):

- 1) product anti-tamper (magnetic switch within cover, alerts when cover is unscrewed)
- 2) application-based anti-tamper (tamper alert via end-of-line resistor)

Anti-tamper (EX-IT versions): product anti-tamper (magnetic switch within cover, alerts when cover is unscrewed)

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'

Cable diameter:

EX	7/32" (5-conductor cable)
EX-IT	15/64" (7-conductor cable)

Electrical Access: 3/4" NPT pipe thread

COMPLIANCE

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

* output ratings may vary depending on optional end-of-line resistor values

** optional for EX-IT versions

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