

PHOENIX EXTM

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



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TECHNOLOGY

CERTIFICATIONS







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DESCRIPTION

BEA's **PHOENIX EXTM 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

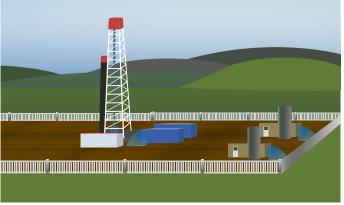


Energy Conservation

Bidirectional, unidirectional approach and unidirectional depart microwave detection options

Tamper Proof

Integrated tamper alert switch and customizable end-of-line resistors



Certified Housing

Explosion-proof / flame-proof housing weighs 10 pounds

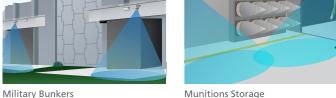
Customizable Detection Angle

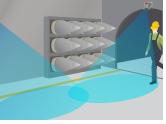
Tilt adjustment angle: -90 to 30° in elevation

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APPLICATIONS







Maintenance Facility

Munitions Storage

TECHNICAL SPECIFICATIONS

echnology Transmitter Frequency Transmitter Radiated Power Transmitter Power Density	Microwave Doppler Radar 24.150 GHz < 20 dBm EIRP < 5 mW / cm ²
etection Mode	Motion
utput* Maximum Contact Voltage Maximum Contact Current Maximum Switching Power	Relay (free of potential change-over contact) 42 VAC / VDC 1 A (resistive) 30 W (DC): 60 VA (AC)



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Transmitter rower bensity	\ 3 111V / C111
Detection Mode	Motion
Output* Maximum Contact Voltage Maximum Contact Current Maximum Switching Power	Relay (free of potential change-over contact) 42 VAC / VDC 1 A (resistive) 30 W (DC); 60 VA (AC)
Anti-Tamper Feature	30 W (DC), 00 VA (AC)
PHOENIX EX	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)
PHOENIX EX-IT	Tamper alert via output
Minimum Detection Speed	2 in / s*
Supply Voltage	12 – 24 VAC; ±10% 12 – 24 VDC; +30% / -10%
Mains Frequency	50 – 60 Hz
Maximum Power Consumption	< 2 W
Electrical Access	3/4"
Cable Length	30' or 100' (default), diameter 1/4" max.
Detection Zone Standard mounting Low mounting Wide detection	13' × 16' @ 16' 13' × 6½' @ 8½' 30' × 11' @ 21' Typical at 30° and field size 9
Mounting Height	
Standard mounting Low mounting	11½ – 23′ 6½ – 11½′



Wide detection Dimensions

Temperature Range Housing Certification***

Norm Conformity

Weight

Housing & Bracket

11½ – 21′

10 lbs -22 – 140 °F

See User's Guide EMC: 2004 / 108 / EC

R&TTE: 1999 / 5 / EC

 $5\frac{1}{2}$ " (H) × $7\frac{1}{2}$ " (W) × 9" (L)

PRODUCT SERIES

Compressor Station



10PHOENIXEX100 Standard mounting heights



10PHOENIXEXXL100 Low mounting heights



Wide detection fields



10PHOENIXEX-IT100 Standard mounting heights



Low mounting heights



Wide detection fields



10REMOTE

BEA universal remote control

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^{**}Output ratings may vary depending on optional end-of-line resistor values

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