PHOENIX EX™

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

LEARN MORE

click or scan

TECHNOLOGY

CERTIFICATIONS

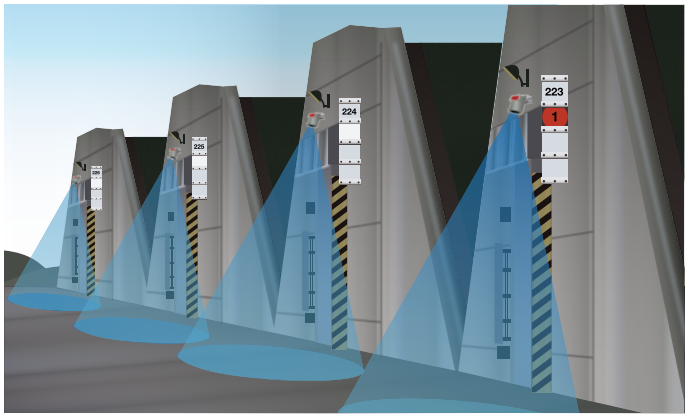
DESCRIPTION

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

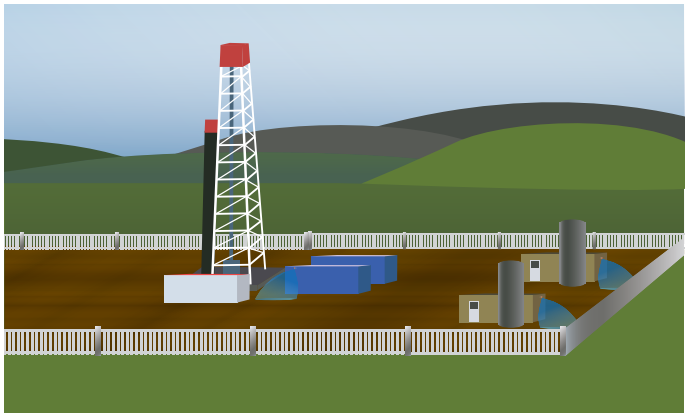


Energy Conservation

Bidirectional, unidirectional approach and unidirectional depart microwave detection options

Tamper Proof

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



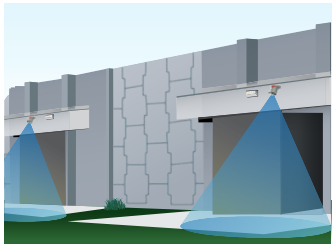
Certified Housing

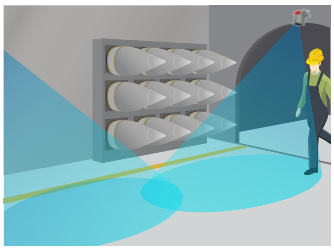
Explosion-proof / flame-proof housing weighs 10 pounds

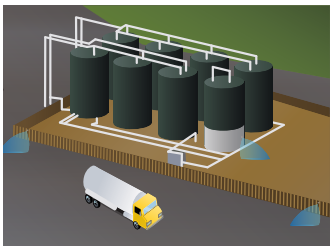
Customizable Detection Angle

Tilt adjustment angle: -90 to 30° in elevation

APPLICATIONS


Military Bunkers


Munitions Storage


Compressor Station


Maintenance Facility

TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Transmitter Frequency	24.150 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Transmitter Power Density	< 5 mW / cm²
Detection Mode	Motion
Output*	Relay (free of potential change-over contact)
Maximum Contact Voltage	42 VAC / VDC
Maximum Contact Current	1 A (resistive)
Maximum Switching Power	30 W (DC); 60 VA (AC)
Anti-Tamper Feature	
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	¾"
Cable Length	30' or 100' (default), diameter ¼" max.
Detection Zone	
Standard mounting	13' × 16' @ 16'
Low mounting	13' × 6½' @ 8⅕'
Wide detection	30' × 11' @ 21' Typical at 30° and field size 9
Mounting Height	
Standard mounting	11½ – 23'
Low mounting	6½ – 11½'
Wide detection	11½ – 21'
Dimensions	
Housing & Bracket	5½" (H) × 7½" (W) × 9" (L)
Weight	10 lbs
Temperature Range	-22 – 140 °F
Housing Certification* **	See User's Guide
Norm Conformity	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC

*Measured in optimal conditions
**Output ratings may vary depending on optional end-of-line resistor values
***Adalet / Scott Fetzer Co., UL Listing #E81696

PRODUCT SERIES


10PHOENIXEX100
Standard mounting heights


10PHOENIXEXXL100
Low mounting heights


10PHOENIXEXW100
Wide detection fields


10PHOENIXEX-IT100
Standard mounting heights


10PHOENIXEXXL-IT100
Low mounting heights


10PHOENIXEXW-IT100
Wide detection fields


10REMOTE
BEA universal remote control

BEA AMERICAS / RIDC Park West / 100 Enterprise Drive / Pittsburgh, PA
T 1-800-523-2462 / **F** 1-888-523-2462 / **E** info-us@BEAsensors.com

A **Halma** company