PHOENIX EX™

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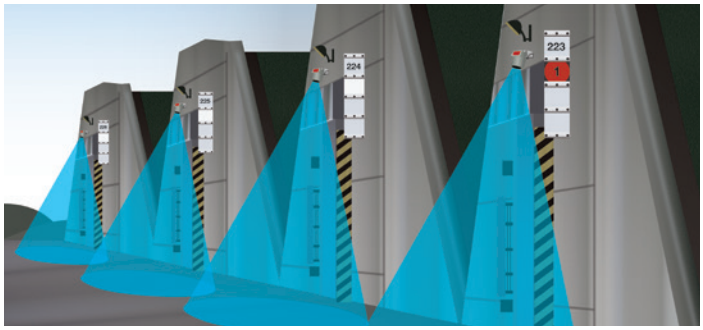
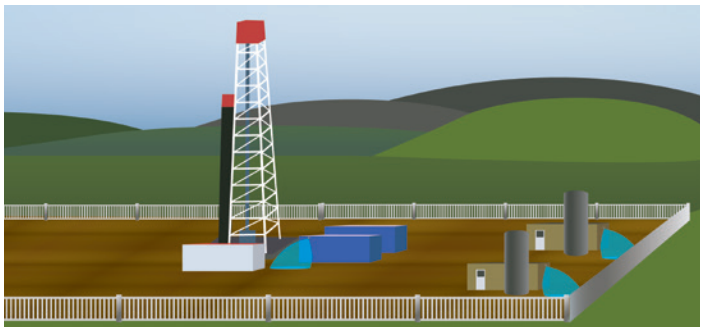
MOTION SENSOR WITH EXPLOSION-PROOF / FLAME-PROOF HOUSING

NEMA 4 RATED ENCLOSURE

PRIMARY APPLICATIONS





DESCRIPTION

BEA's Phoenix EX™ combines a microwave activation 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™ is designed to detect within a desired area for security, warning indication and automation. When tied into a security system, the Phoenix EX™ offers a monitoring feature via the end-of-line resistors. These resistors provide unique output states, which allow differentiation between an activation signal and an interruption in functionality due to tampering of the device.

The explosion-proof / flame-proof housing is a NEMA 4X, water-proof 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

FEATURES & BENEFITS

- Bidirectional, unidirectional approach and unidirectional depart microwave detection options
- Integrated tamper alert switch and end-of-line resistors
- Optional remote control programming for ease of installation
- Explosion-proof / flame-proof housing weighs 11 pound housing
- Tilt adjustment angle: –90° – 30° in elevation

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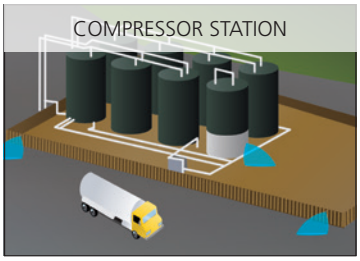
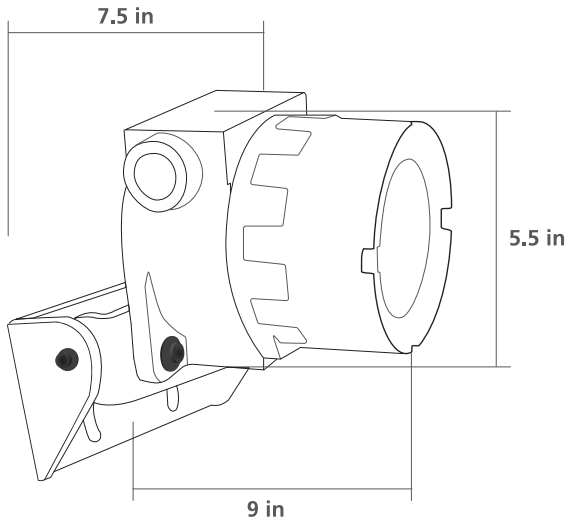
APPLICATIONS



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
Anti-Tamper Feature	Tamper alert via output
Detection Zone (W × D)	
Phoenix EX™	156 in × 192 in @ 192 in (13 ft × 16 ft @ 16 ft)
Phoenix EX XL™	156 in × 78 in @ 98.4 in (13 ft × 6.5 ft @ 8.2 ft)
Phoenix EX Wide™	360 in × 132 in @ 252 in (30 ft × 11 ft @ 21 ft)
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)
End-of-Line Resistors**	Default
Resistor 1	No Value
Resistor 2	No Value
Minimum Detection Speed	2.2 in / s
LED Signals	Green: Value indication upon query Red: Detection state & parameter indication
Supply Voltage	12 – 24 VAC; ±10% (50 – 60 Hz) 12 – 24 VDC; 30% / –10%
Maximum Power Consumption	< 2 W
Electrical Access	¾ in NPT pipe thread
Cable Length	30 ft or 100 ft (default)
Mounting Height	
Phoenix EX™	138 in – 276 in (11.5 ft – 23 ft)
Phoenix EX XL™	84 in – 138 in (6.5 ft – 11.5 ft)
Phoenix EX Wide™	138 in – 252 in (11.5 ft – 21 ft)
Dimensions *(Housing & Bracket)*	7.5 in (W) × 5.5 in (H) × 9 in (D)
Weight	11 lbs
Housing / Bracket Material	Copper-free Aluminum / Aluminum
Temperature Range	–22 °F – 140 °F
Degree of Protection (Housing)* **	UL Class I, Div. 1, Groups B, C, D; Class II, Div. 1 & 2, Groups E, F, G; and Class III; Class I, Zone 1 AEx d IIC; Ex d IIC; NEMA 4X rated; IP66; UL 1203; FM 3615 CAS C22.2 No. 30; UL 60079-0 / UL 60079-1; CAS 60079-0 / CSA 60079-1; ATEX Directive 94 / 9 / EC; UL 50; IEC 60529
Norm Conformance	EMC: 2004 / 108 / EC R&TTE: 1999 / 5 / EC **FM: Approved Instrument Housing**

DIMENSIONAL DRAWINGS



RELATED PRODUCTS

10PHOENIXEX
STANDARD MOUNTING HEIGHTS

10PHOENIXEXXL
LOW MOUNTING HEIGHTS

10PHOENIXEXW
WIDE DETECTION FIELDS

10REMOTE
BEA UNIVERSAL REMOTE CONTROL

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

**End-of-line resistor values can be ordered to custom specifications to meet application requirements

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