

R2E-100



FOCUSED ACTIVE INFRARED **REQUEST-TO-EXIT SENSOR**

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TECHNOLOGY

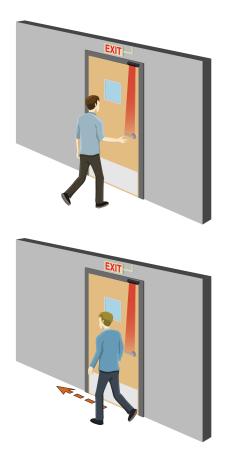
CERTIFICATIONS



DESCRIPTION

BEA's UL Listed **R2E-100** is a request-to-exit sensor with an active infrared (AIR) detection zone focused directly on the door handle. This allows the **R2E-100** to only detect people intending to exit through the door as they reach for the door handle.

The AIR based **R2E-100** improves accuracy of detection as compared to passive infrared (PIR) technology including ground based errors, PIR sensor spoofing, known PIR vulnerabilities (hot air, background objects, cross traffic).



Standards Compliant UL 294 / ULC S319 Listed

Define Your Tilt Angle Adjustable tilt angle from $0 - 10^{\circ}$

Customizable Detection Zones

Adjustable detection range from 20 - 48 inches*

Low Profile Mounting

Low profile sensor mounts on or above the door frame

Multiple Inputs

Three DRY auxiliary inputs: a push button or other request-to-exit device, a card reader or other request-to-enter device, and a door position switch

*The R2E-100 can accommodate swinging doors up to 7 feet

APPLICATIONS



Request-To-Exit

TECHNICAL SPECIFICATIONS

| Detector Type | Focused Active Infrared |
|----------------------------|--|
| Supply Voltage | 12 – 24 VAC / VDC; ±10% @ 60 Hz |
| Current | |
| Sounder OFF | 155 mA |
| Sounder MAX VOLUME | 200 mA |
| Temperature (UL Install) | 32 – 120 °F (0 – 49 °C) |
| Temperature | -20 – 120 °F (-29 – 49 °C) |
| Humidity | |
| (ULC S319 Installation) | 0 – 93% non-condensing |
| (UL 294 Installation) | 0 – 85% non-condensing |
| Detection Range | 20 – 48", adjustable via potentiometer |
| Relay | 2 Form "C" contact sets; |
| | 1.3 A @ 24 VAC / 30 VDC |
| Relay Hold Time | 0.5 – 60 s, adjustable via potentiometer |
| Sounder | 85 dB max, adjustable volume |
| Indicator LEDs | Green, Red, Yellow, Orange |
| REX Input | DRY contact, NO |
| Card Reader Input | DRY contact, NC |
| Door Position Switch Input | DRY contact, NO |
| Dimensions | 6 ⁷ / ₁₀ " (W) × 1 ⁷ / ₁₀ " (D) × 2" (H) |
| Material | Plastic (ABS and PC) |
| Wiring Interface | JST (14-pin) with 4' cable |
| Norm Conformity | UL 294 / ULC S319 |
| | FCC Part 15 B |
| | |

PRODUCT SERIES



10R2E-100 Focused active infrared sensor

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