



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°

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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