



# 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

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

## PRODUCT SERIES



**10R2E-100**  
Focused active  
infrared sensor

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