

# REFRIGERANT LEAK DETECTION SENSOR

## SPECIFICATION SHEET

### DESCRIPTION

RenewAire's **Refrigerant Leak Detection Sensor identifies refrigerant leaks in HVAC applications**. In addition to rapid and accurate leak detection, our **thermal conductivity technology** provides 15+ year lifetime warranty, immunity to poisoning, automated self-calibration, and reliable self-diagnostics to avoid silent failures. The unique design is optimized to ensure performance over system lifetime even in harsh application environment as it

### FEATURES

- ◆ Designed for use with R454B and R32
- ◆ Easy system check via LED status
- ◆ Robust design



PART NUMBER	DESCRIPTION
301282	Refrigerant Leak Detection Kit

SENSOR SPECIFICATIONS (UL 60335-2-40)	
Measuring Range	0–100% Lower Flammability Limit (LFL)
Alarm Threshold	10% or 15% LFL
Operating Temperature	-40°F–175°F (-40°C–80°C)
Intermittent Temperature	-40°F–203°F (-40°C–95°C)
Storage Temperature	-67°F–203°F (-55°C–95°C)
Operating Pressure	700–1200 mbar
Operating Humidity	0 to 100% RH with condensation
Enclosure Protection (EN 60529)	IP 54
Connector Protection (EN 60529)	IP 56 and IP 57
Flame Rating	UL 94 V-0

## PERFORMANCE SPECIFICATIONS

Accuracy at Ambient 15°C–25°C, 30–70% RH	±2.5% LFL
Accuracy Across Operating Range	±5.0% LFL
Response Time	< 15 Seconds
Sensor Recovery Time	< 5 Minutes in Clean Air
Lifetime	Minimum 15-Year Lifetime (self monitoring)
Mitigation Recovery Timer	0–5 Minutes
Alarm Response	Led Turns Red and Contact Closes
Alarm Reset	2.5% LFL Hysteresis

## ELECTRICAL SPECIFICATIONS

Supply Voltage	24 VAC +/-10% and 24 VDC (8-32VDC)
Power consumption (estimated)	1.6 VA Maximum
Response time	< 15 Seconds

## MECHANICAL SPECIFICATIONS

Materials: Enclosure	Nylon 66 (PA66) Reinforced with 25% Glass Fibers (GF25)
Materials: Electrical Connection	Nylon
Net Weight	0.04 kg

## DIMENSIONS

Dimensions are shown in mm, unless stated otherwise.

