

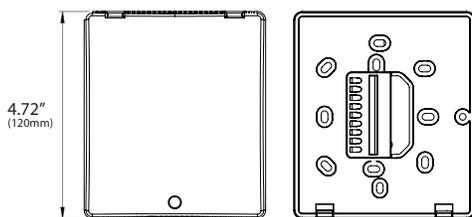
Potential risks of refrigerant leaks necessitate installation of refrigerant leak detectors. The VRF features Photoacoustic Infrared technology which enables devices to operate for long periods of time without adjustment or zero drift. VRF Refrigerant Detectors also provide a stable zero baseline while achieving low detection levels at 25 ppm minimum detection. These units can be installed to work independently, communicating directly to building management systems through BACnet™ MS/TP, Modbus RTU or via analog outputs. Digital communication adds the benefit of gas detection integration for a total building management and control solution. Detector location is key to ensuring that proper detection occurs. Detectors should be installed on at, interior surfaces located approximately 12–18 inches from doors where refrigerant will likely accumulate, as refrigerant gas is typically heavier than air. VRF detectors can also be installed in ceilings close to manifolds, coils and valves that may be susceptible to leaks. Do not place sensors in areas where air does not circulate freely, such as behind doors or in corners. An annual calibration check is recommended.



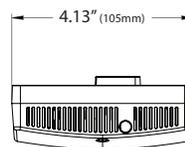
Applications:

Hotels, Schools, Office Buildings, Occupied Spaces

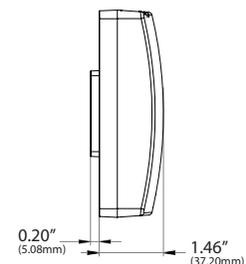
DIMENSIONAL DRAWING



Front & Back View



Top View



Right View

PRODUCT SPECIFICATIONS

Power Requirements:	24 VDC ±20%, 24 VAC ±20%, 50/60 Hz, Class 2
Power Consumption:	≤ 5 Watts
Analog Output Signals:	2 to 10 VDC (10K Ohm Load Minimum) or 4 to 20 mA (500 Ohm Load Maximum)
Communication Protocols:	Modbus (RTU) or BACnet™ (MS/TP)
Measurement Range:	0 to 1,000 ppm
Minimum Detection Level:	25 ppm
Response Time (T50):	Less than 240 seconds
Relay Contacts:	N/O = Normally-Open, when no power applied to the sensor (De-Energized) C = Common N/C = Normally-Closed, when no power is applied to the sensor (De-Energized)
Relay (Maximum Contact Rating):	2A @ 30 VDC
Relay (Alarm Indication):	50 ppm
Relay Switching Capacity:	60 Watts (Maximum)
Visual Indication:	2 LEDs (Fault and Alarm)
Repeatability:	±10 ppm @ 50 ppm
Linearity:	±10 ppm from 25-50 ppm, ±20% of reading from 50 to 1000 ppm
Sensor Type:	Photoacoustic Infrared
Standard Gases:	R-410a
Mounting Height:	12-18 inches (30-45 cm) from floor
Warm-Up Time:	30 Minutes
Operating Temperature Humidity:	0 to 60 °C (32 to 140 °F) 0 to 80%, non-condensing
Operating Atmospheric Pressure:	10.2 to 15.7 PSIA (70 to 108 kPa)
Operating Altitude:	0 to 2,000 m (0 to 6,561 ft)
Recommended Storage Temperature:	-40 to 70 °C (-40 to 158 °F)
Wire Size:	14 AWG max (up to 2.5 mm ²), Class 2 copper wiring
Enclosure (Material, Flammability Rating):	Lexan 943, UL94 V-0
Canada Approval:	CAN/CSA-C22.2 No. 61010-1-12
USA Approval:	UL Std. No. 61010-1 (3rd edition)
International Approval:	IEC61010-1:2010 (3rd edition) CB certificate
CE Approval:	Complies with the applicable LVD and EMC directives REACH/RoHS Compliance
Pollution Degree:	Two (2)
Installation Category:	II
Product Weight:	0.51 lbs. (230g)
Product Dimensions (L x W x H):	4.7" x 4.1" x 1.7" (11.9 cm x 10.4 cm x 4.3 cm)