

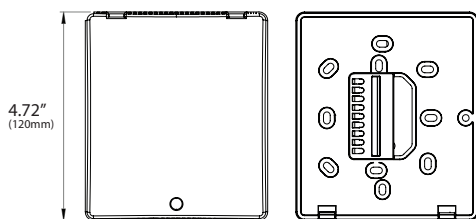
Potential risks of refrigerant leaks necessitate installation of refrigerant leak detectors. The VRF features Photoacoustic Infrared technology which enables devices to operate for long periods of time without adjustment or zero drift. VRF Refrigerant Detectors also provide a stable zero baseline while 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.



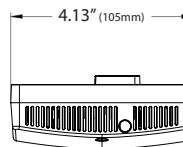
### Applications:

Hotels, Schools, Office Buildings, Occupied Spaces

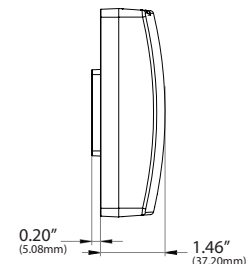
### DIMENSIONAL DRAWING



Front & Back View



Top View



Right View

### PRODUCT SPECIFICATIONS

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