



Honeywell Sensepoint Fixed Gas Detector Instruction Manual

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Honeywell

Honeywell Sensepoint Fixed Gas Detector



INTRODUCTION

The Sensepoint range of flammable, toxic and Oxygen gas detectors offer users a low cost solution to their gas monitoring needs, in or out of doors and even in potentially explosive atmospheres. Supplied with a pre-wired junction box, a detector can be installed using conduit or armored cable and glands depending on individual site standards.

Sensepoint flammable and toxic gas detectors are designed for use in potentially explosive atmospheres and allow for hands free, unhindered access, to terminals via the hinged lid of the junction box. Installation should follow national guidelines using suitably approved armored cable and glands or conduit. Supplied with earth continuity plate for improved immunity to RFI the junction box offers the installer a choice of 1/2", 3/4" and M20 connection via conduit or armored cable and Exe certified cable glands. Terminals are suitable for use with screened 0.5mm² (20AWG) to 2.5mm² (14AWG) cross sectional area cable, as needed to ensure minimum operating voltage at the detector, depending upon installed cable length.

Sensepoint flammable, toxic and Oxygen gas detectors are designed for direct connection with the Honeywell Analytics' range of Touchpoint controllers.

Contact Honeywell Analytics for details.

FEATURE

One-Stop Shop

- Flammable, toxic and Oxygen versions available
- Suitable for indoor or outdoor use
- IP65 as standard

Proven Sensor Technology

- Surecell™ electrochemical sensors
- Poison resistant catalytic bead
- Fast and reliable
- Typical 2 to 5 years operational life

ATEX Certified

- Complies with the latest European standards
- Hazardous area approval AND performance
- Can be used for uncertified applications

Easy to Use

- Factory set operation
- Simple to replace
- Minimal training required

Friendly Installation

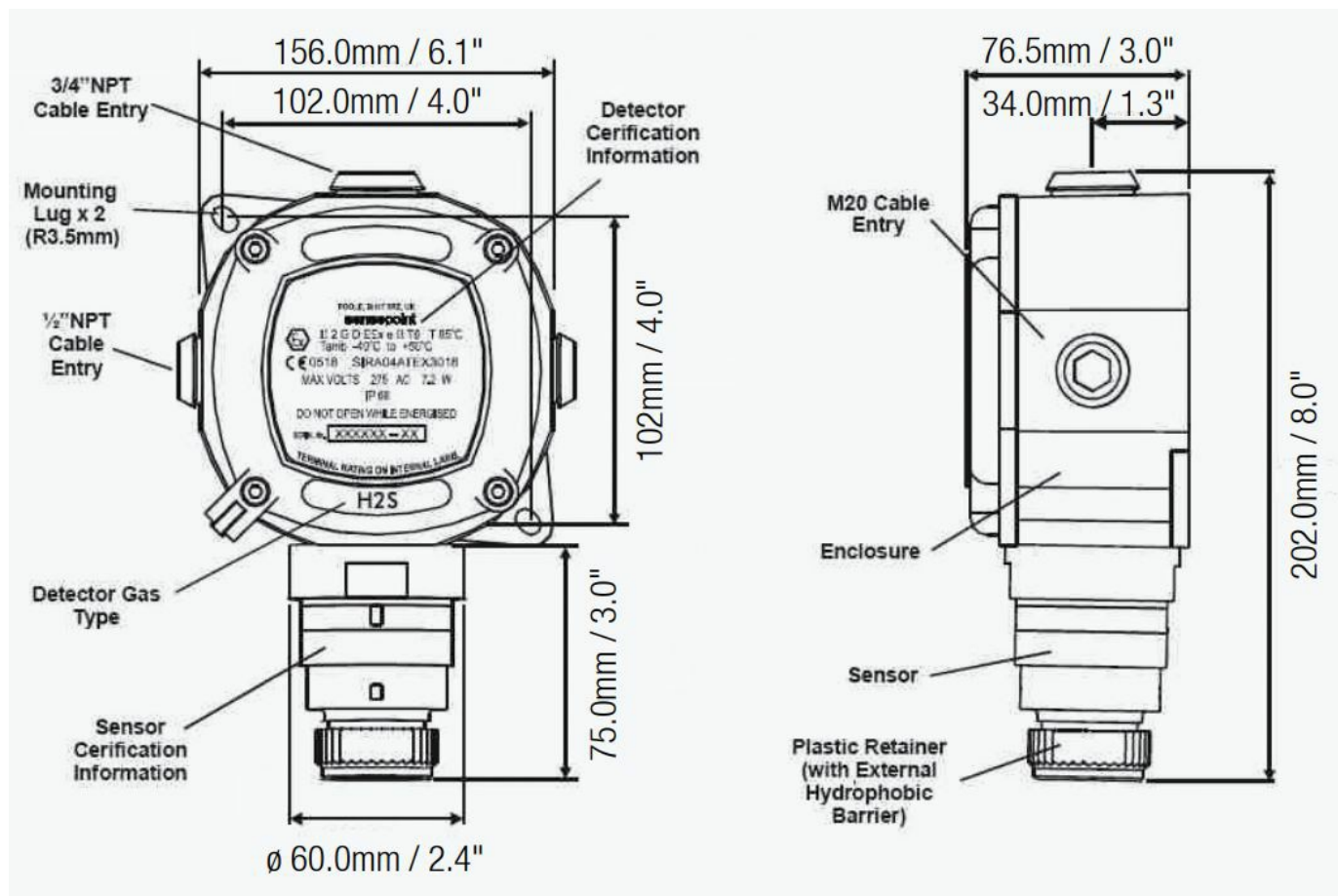
- Universal junction box
- One box, three entries
- Metric and NPT compatibility
- Includes earth continuity plate for added RFI protection

Range of Accessories

- Weather Housing (IP66)
- Flow adaptor
- Duct mounting kit
- Collecting cone

INSTALLATION DETAILS

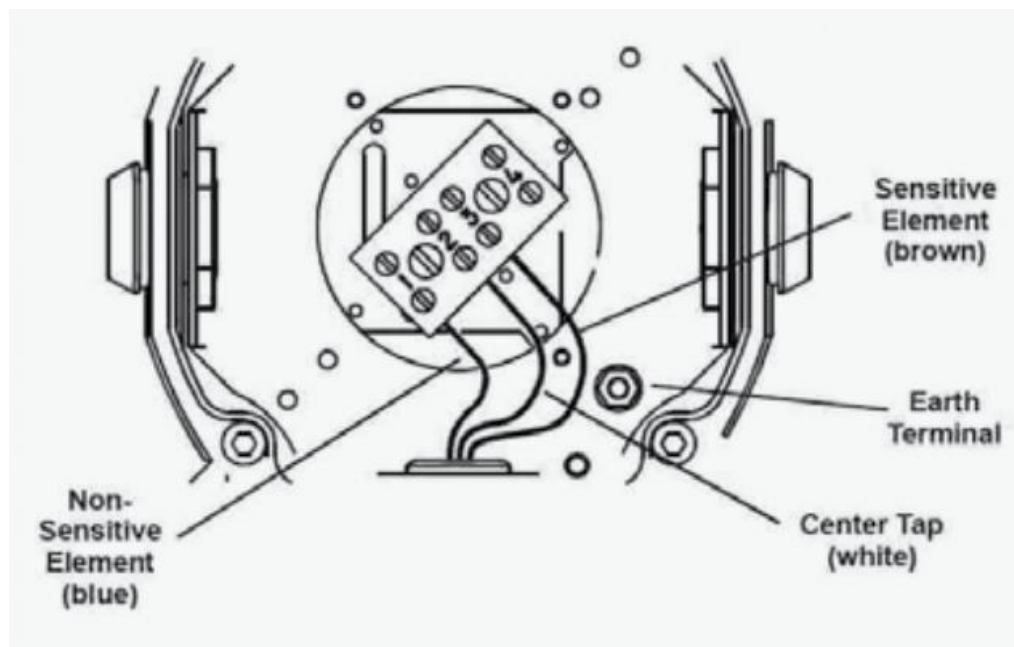
Dimensions



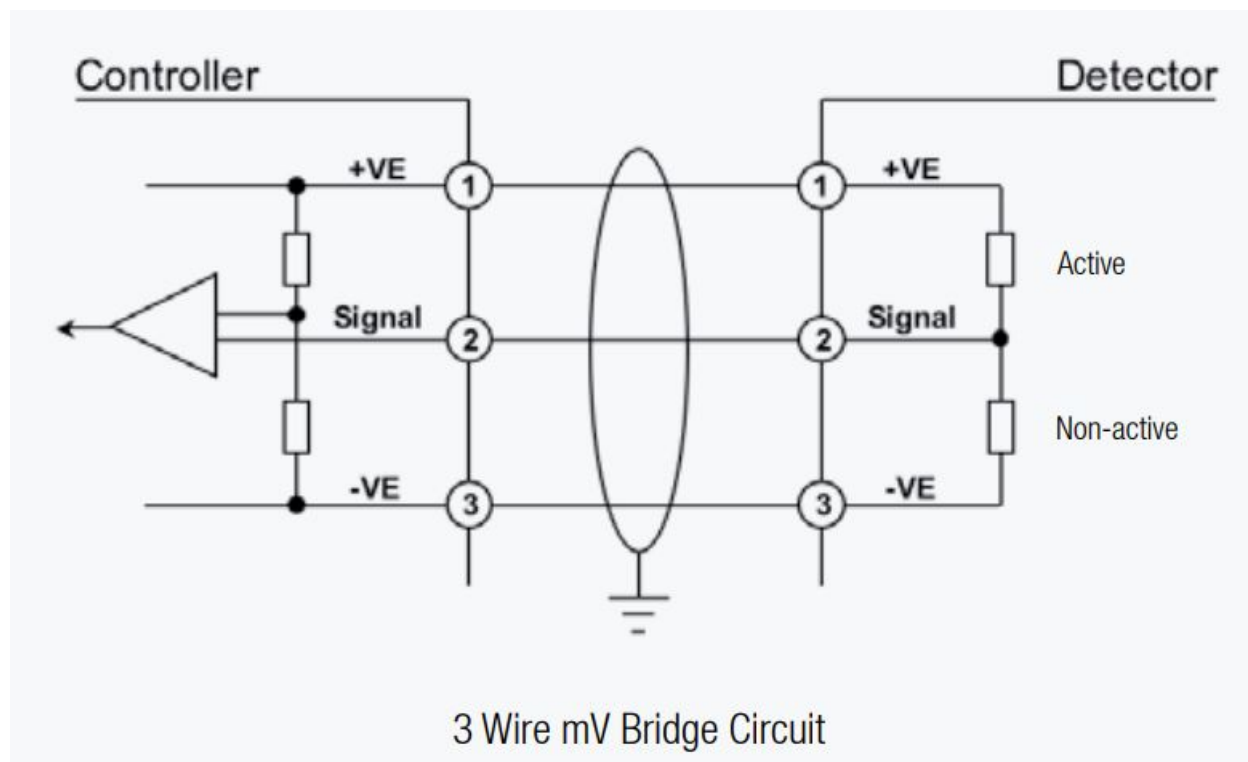
- Sensepoint flammable and toxic gas detectors allow for hands free, unhindered access, to terminals via the hinged lid of the junction box.
- Supplied with earth continuity plate for improved immunity to RFI, the junction box offers the installer a choice of 1/2"NPT, 3/4"NPT and M20 connection via conduit or steel wire armored cable and Exe certified cable glands.
- Sensepoint flammable, toxic and Oxygen gas detectors are designed for direct connection with the Honeywell Analytics' range of Touchpoint controllers. Contact Honeywell Analytics for details.

Flammable Version

- Terminal Arrangement

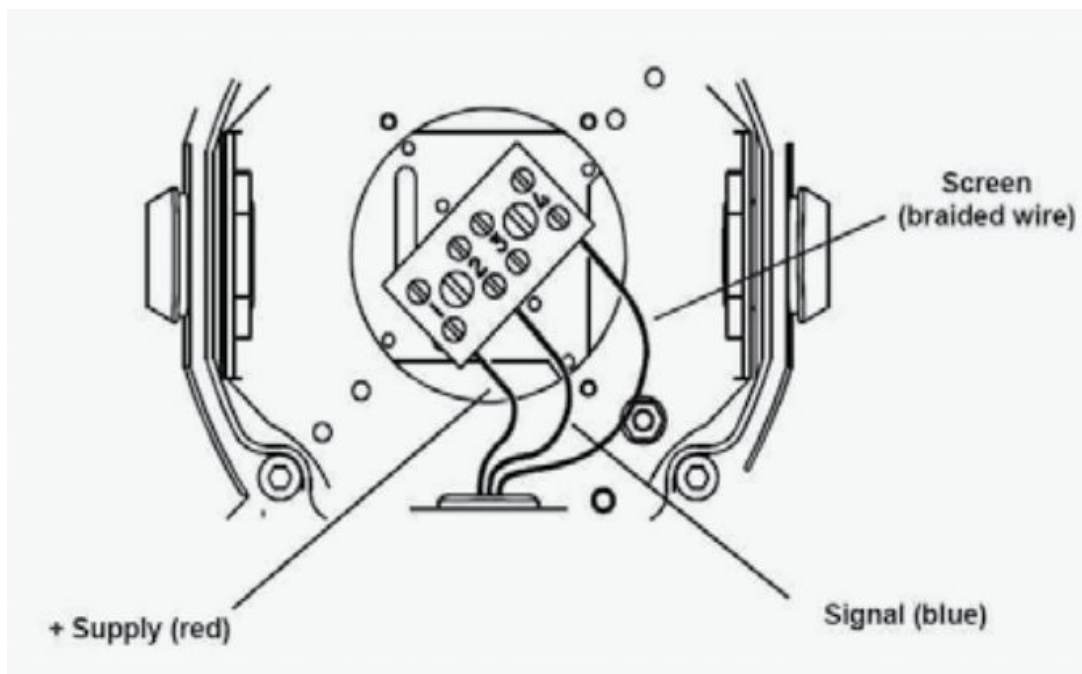


- Electrical Connections

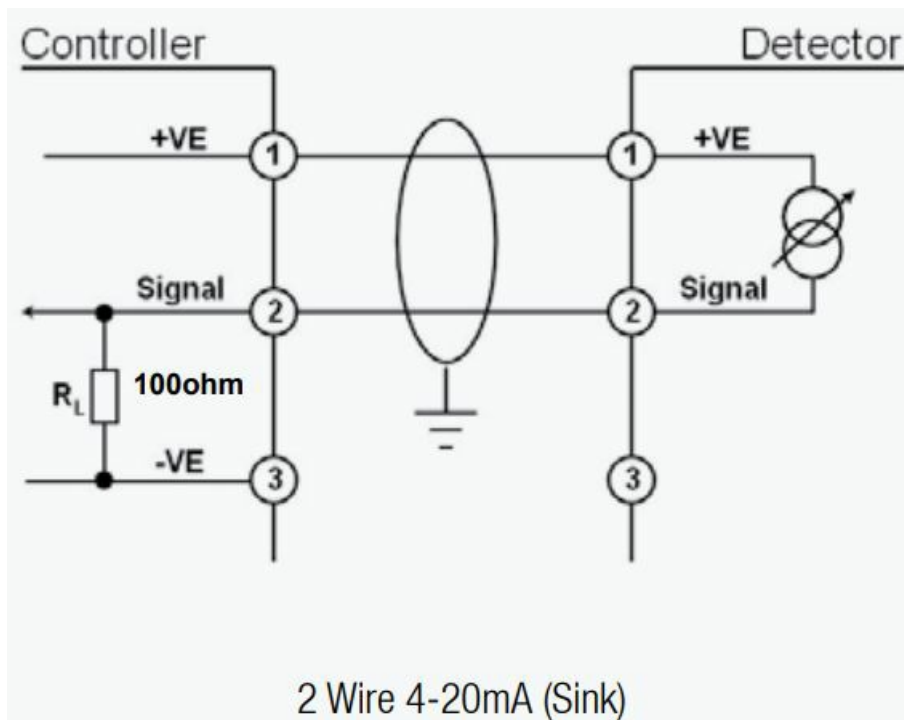


Toxic & Oxygen Version

- Terminal Arrangement



- Electrical Connections



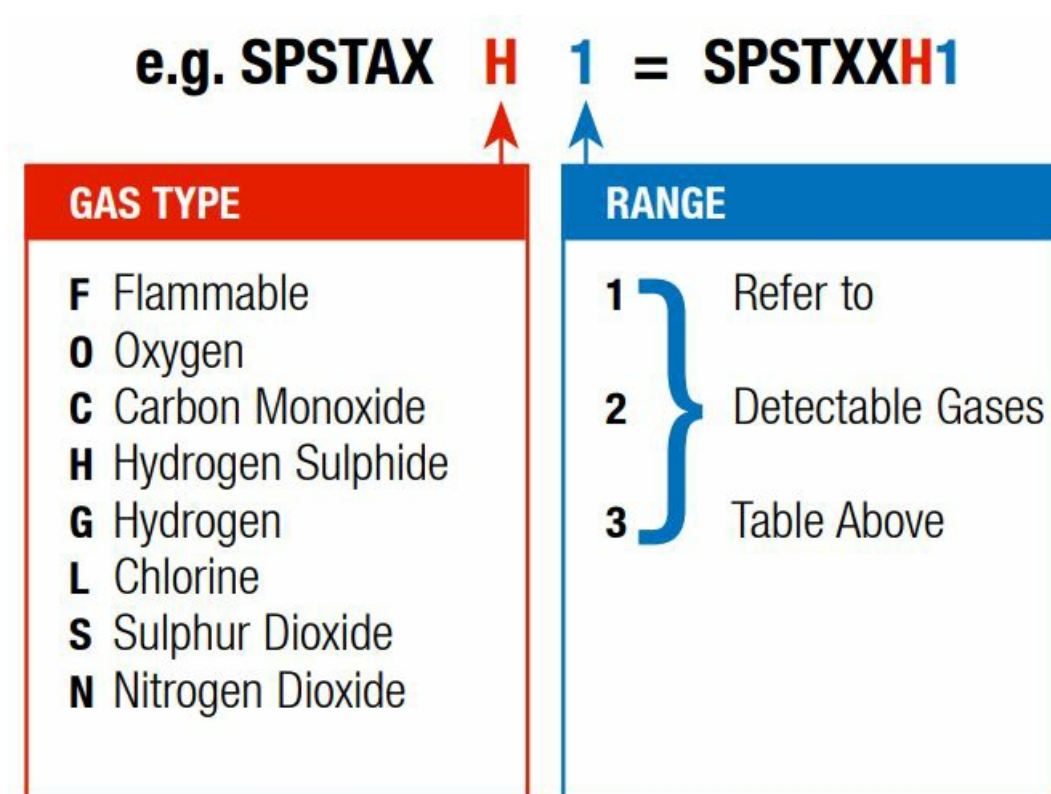
Technical Summary

General Specification								
Use		Low cost, fixed point gas detector for the protection of personnel and plant from flammable, toxic and Oxygen gas hazards						
Detectable Gases								
	Gas		Measuring Range			Operating Temperature*		
	Ident Name		1#	2	3	Min	Max	
F	Flammable		0-100% LEL			-40°C / -40°F	50°C / 122°F	
O	Oxygen		0-25% VOL			-15°C / 5°F	40°C / 104°F	

C	Carbon Mono xide+	0-200ppm	0-500ppm			-20°C / -4°F	50°C / 122°F	
H	Hydrogen Sul phide+	0-50ppm	0-20ppm		0-100ppm	-25°C / -13° F	50°C / 122°F	
G	Hydrogen	0-1000ppm				-5°C / 23°F	40°C / 104°F	
L	Chlorine	0-5ppm	0-15ppm			-20°C / -4°F	50°C / 122°F	
S	Sulphur Dioxi de	0-15ppm	0-50ppm			-15°C / 5°F	40°C / 104°F	
N	Nitrogen Dioxi de	0-10ppm				-15°C / 5°F	40°C / 104°F	
A	Ammonia	0-50ppm	0-1000ppm			-20°C / -4°F	40oC / 104°F	
+ SureCell™ Sens ing Technology		#Standard ran ge				*Check certified temperature		
Construction								
Electrical		Flammable (0-100%L EL) 3 wire mV bridge	Toxic & Oxygen 2 wire loop powered 4-20 mA		Junction Box Earth continuity plate			
		2.9-3.5V, 0.7W	(plus screen)		BK4 terminal block (4 way)			
		200mA constant curre nt	16-30Vdc, 0.9W		4 x 0.5mm2 (20AWG) to 2.5 mm2 (14AWG)			
					1 x M20, 1 x 3/4" NPT, 1×1/2 " NPT			
Material		Polyphenylene Sulphi de (PPS)	Polyphenylene Sulphide (PPS)		Fire retardant GFP			
Weight		190g	185g (205g oxygen)		600g			
Certification		Ex II 2 G D EExd IIC	Ex II 2 G D EExd ia IIC		Ex II 2 G D EExe II			
		T6 T85 Deg C	T4 T135 Deg C		T6 T85 Deg C			
		Tamb = -55°C to +55° C	Tamb = -55°C to +65°C		Tamb = -40°C to +50°C			
		BAS98ATEX2156X	BAS98ATEX2157X		SIRA04ATEX3018			
		SIRA03ATEX1116X						
		(Performance)						
Applicable Standa rds		This product complies with the relevant CE standards including:						
		EMC to EN50270, Flammable to EN50054, Toxic to EN445544 (H2S only)						
Environmental								
IP Rating		IP65 standard, IP66 with weather protection in accordance with EN60529:1992						

Operating Temperature	Dependent upon gas type and certification	
Operating Humidity Range	Continuous: 20-90%RH (non condensing), Intermittent: 10-99%RH (non condensing)	
Operating Pressure	90-110kPa	
Storage Conditions	Instrument -40°C to +50°C (-40°F to +122°F)	

Ordering Information



Standard Supply	Each detector is supplied complete with junction box, multiple cable entries, earth continuity plate, hinged lid and instruction leaflet, all sealed in a plastic bag inside a shipping carton	
Shipping Details	Shipping carton dimensions: L160mm (6.3") x W215mm (8.5") x 80mm (3.1") Approximate weight: 800g	
Optional Accessories	02000-A-1645	Calibration gas flow housing (for flammable & toxic)
	00780-A-0160	Right angle mounting bracket for ceiling mounting
	02000-A-1640	Weather Housing for use with flammable detector including remote gassing nozzle
	02000-A-1635	Weather Housing for use with toxic/Oxygen detector including remote gassing nozzle
	02000-A-1642	Collecting cone for use with flammable detector
Calibration Equipment	Contact Honeywell Analytics Representative	



Our Product Range

Fixed Gas Monitoring



Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- Detection of flammable, oxygen and toxic gases (including exotics).
- Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared.
- Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v).
- Cost effective regulatory compliance solutions.

Portable Gas Monitoring



When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- Detection of flammable, oxygen and toxic gases
- Single gas personal monitors – worn by the individual
- Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

Technical Services



At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- Full technical support
- Expert team on hand to answer questions and queries
- Fully equipped workshops to ensure quick turnaround on repairs
- Comprehensive service engineer network
- Training on product use and maintenance
- Mobile calibration service
- Customised programmes of preventative/corrective maintenance
- Extended warranties on products

Find out more: www.honeywellanalytics.com

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Please Note:


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10/07

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Documents / Resources

	<p>Honeywell Sensepoint Fixed Gas Detector [pdf] Instruction Manual</p> <p>Sensepoint Fixed Gas Detector, Sensepoint Gas Detector, Fixed Gas Detector, Gas Detector, Sensepoint, Detector</p>
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References

- [H Honeywell - The Future Is What We Make It](#)
- [H Honeywell Analytics](#)