

**INSTRUMENT SPECIFICATION SHEET - FLAME DETECTORS**

Project:		Revision / Check'd		Spec Number:	Page	Of	
Date	By	Description / Number		Contract:	Date:	Rev:	
			/				
			/	Req:	P.O.:		
			/	By:	Checked:	Approved:	
General Data	1	Instrument Tag Number	/	/	/	/	
	2	Service / Location					
	3	P & ID Number					
	4	Material Source					
	5	Requisition Number					
	6	Item Number					
	7	Manufacturer	Rosemount		Rosemount		Rosemount
	8	Model Number	975MR		975MR		975MR
Process Data	9	Ambient Air Surveillance	Yes	Yes		Yes	
	10	Flame Type To Be Detected	Hydrocarbon fires	Hydrocarbon fires		Hydrocarbon fires	
	11	Contamination Gases	None	None		None	
Sensor Data	12	Number of Sensors / Part Number	4 /	4 /		4 /	
	13	Sensing Element (Type)	Pyroelectric: Triple Infrared between 4-5 µm	Pyroelectric: Triple Infrared between 4-5 µm		Pyroelectric: Triple Infrared between 4-5 µm	
	15	Sensor Material (Al or SS)	AL, SS	AL, SS		AL, SS	
	16	Detection Range	65 m (215 ft)	65 m (215 ft)		65 m (215 ft)	
	17	Field of View	Horizontal 100°; Vertical 95°	Horizontal 100°; Vertical 95°		Horizontal 100°; Vertical 95°	
	18	Enclosure Rating	Type 4X, IP66/67	Type 4X, IP66/67		Type 4X, IP66/67	
	19	Conduit Connection Size (NPTF)	3/4" NPT, M25, M20	3/4" NPT, M25, M20		3/4" NPT, M25, M20	
	20	RFI Susceptibility Tested	Yes	Yes		Yes	
	21	Operational Temperature Range	-55°C to +75°C (-67°F to +167°F)	-55°C to +75°C (-67°F to +167°F)		-55°C to +75°C (-67°F to +167°F)	
	22	Humidity Range	95 % non-condensing	95 % non-condensing		95 % non-condensing	
	23	Response Time	Typically 5 sec	Typically 5 sec		Typically 5 sec	
	24	Visual Integrity	Yes (Automatic and Manual)	Yes (Automatic and Manual)		Yes (Automatic and Manual)	
	25	End to End Test	Yes (Flame Simulator)	Yes (Flame Simulator)		Yes (Flame Simulator)	
	Transmitter Data	26	Signal Cable Length (Max In Feet)	Vendor to advise	Vendor to advise		Vendor to advise
		27	Signal Amplifier	No	No		No
28		Local Indication	LED	LED		LED	
29		Type of Mounting	Wall, Pole, or Duct Mount	Wall, Pole, or Duct Mount		Wall, Pole, or Duct Mount	
30		Housing Material	316 SS, AL	316 SS, AL		316 SS, AL	
31		NEC Classification	Class I Div.1, Groups B, C & D Class II/III Div.1, Groups E, F & G	Class I Div.1, Groups B, C & D Class II/III Div.1, Groups E, F & G		Class I Div.1, Groups B, C & D Class II/III Div.1, Groups E, F & G	
32		Input Power	24 VDC @ 0.9 A	24 VDC @ 0.9 A		24 VDC @ 0.9 A	
33		Output Signal Range	0-20 mA	0-20 mA		0-20 mA	
34		Relay Contact Arrangement (No.)	SPST (2 or 3)	SPST (2 or 3)		SPST (2 or 3)	
35		Relay Contact Rating	2 A @ 30 VDC	2 A @ 30 VDC		2 A @ 30 VDC	
36		Low Alarm Setpoint (N.O. or N.C.)					
37		Low Alarm Actuates					
38		Latching Low Alarm (Y/N)					
39		High Alarm Setpoint (N.O. or N.C.)					
40		High Alarm Actuates					
41		Latching High Alarm (Y/N)					
Control Unit Data		42	Number of Channels				
	43	Meter Scale Range					
	44	Location					
	45	Type of Mounting					
	46	Operating Temp.					
	47	NEC Classification					
	48	Input Power					
	49	Output Signal Range					
	50	Relay Contact Arrangement (No.)					
	51	Relay Contact Rating					
	52	Low Alarm Setpoint (N.O. or N.C.)					
	53	Low Alarm Actuates					
	54	Latching Low Alarm (Y/N)					
	55	High Alarm Setpoint (N.O. or N.C.)					
	56	High Alarm Actuates					
	57	Latching High Alarm (Y/N)					
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