## SharpEye<sup>™</sup> CCTV IR3 Flame Detector



## 20/20CTIN & 20/20CTIP

The SharpEye CCTV Flame Detector is a selfcontained, triple-spectrum, optical flame detector that incorporates a color video camera. The CCTV is designed to meet SIL2 and HART capability along with other output options.

The flame detector's IR sensors and spectral band pass filters have been selected to ensure the greatest degree of spectral matching to the radiant energy emissions of fire and the lowest degree of matching to non-fire stimuli.

The color video camera enables the user to investigate the monitored area, identify the fire's source and location, and help select the best response to the situation (activation of fire suppression). Configuration can be made to issue either a live color video picture signal at all times, on request or only when a fire is detected. Therefore, the detector is also useful for standard CCTV purposes. The video signal output of the CCTV Flame Detector can be either NTSC (model 20/20CTIN) or PAL (model 20/20CTIP).

The patented triple IR circuit is designed to respond only to flickering radiation signal (1 to 10 Hz) in the spectral bands ranging from 4.0 to 5.0 microns. The SharpEye CCTV Flame Detector is extremely sensitive. It can detect a 1ft.<sup>2</sup> (0.1m<sup>2</sup>) gasoline pan fire at 200 ft. (60m) in less than 10 seconds. The sensitivity /detection distance is user-programmable, offering 4 ranges of detection.

## MAIN FEATURES

- Live color video image
- Triple spectrum design
- · Sensitivity selection
- Highly immune to false alarms
- Automatic and Manual Built-In Test (BIT)
- Standard 4-wire connection
- HART capability
- 4-20mA sink or source (3-4 wires) configuration
- RS-485 Modbus compatible
- User programmable configuration
- MTBF Minimum 43,000 Hours
- 3-Year Warranty
- Designed to meet SIL2
- UL, ATEX & GOST R approved

## APPLICATIONS

- Offshore Oil & Gas
- Onshore Oil & Gas
- Chemical plants
- Petrochemicals plants
- Storage tank farms
- Aircraft hangars
- Power generation facilities
- Pharmaceutical Industry
- Printing Industry
- Warehouses
- Automotive Industry
- Explosives & Munitions
- Waste Disposal facilities



Spectral Response	Three IR Bands				
CCTV Picture			1m <sup>2</sup> ) gasoline flame fror	n 100 ft. (30m) offering a "live	
		the monitored area		<b>e</b> (	
Detection Range	Fuel	ft / m	Fuel	ft / m	
at highest Sensitivity Setting	Gasoline	200/60	JP4	150/45	
for 1ft <sup>2</sup> (0.1m <sup>2</sup> ) pan fire)	N-Heptan	200/60	Kerosene	150 / 45	
	Alcohol 95% Diesel Fuel	150 / 45 140 / 42	Methane* Propane*	60 / 18 60 / 18	
		*20" (0.5m) high, 8" (0.2m) width plume fire			
Response Time	Typical 5 sec.	(0.211) width plutte life			
Adjustable Time Delay	Up to 30 second	de			
Sensitivity Ranges			asoline nan fire from 50	ft (15m) to 200 ft (60m)	
Field of View		4 Sensitive Ranges for 1 ft² (0.1m²) gasoline pan fire from 50 ft (15m) to 200 ft (60m)IR3: 90° horizontal, 90° verticalCCTV: 65° horizontal, 48° vertical			
Built-in-Test	Manual and Aut				
Temperature Range		video): -40°F (-40°C) t	o 158°F (70°C)		
·····	Storage:		to 158°F (70°C)		
Humidity	Up to 95%				
	ELCATIONS				
ELECTRICAL SPECI					
Power Supply	Operating Voltag	9			
Power Consumption		stand-by; Max. 250m/			
Electrical Connection		T conduits or 2 x M25	x 1.5 mm ISO		
Electrical Input Protection	According to MIL-STD-1275B				
Electromagnetic Compatibility	EMI/RFI protect	ed (comply to CE requi	irements)		
OUTPUTS					
	Alexan 24 et 20		0		
Relays		) VDC, 0.5A at 250 VA VDC and 250 VAC			
		ally closed, others nor	mally open		
0-20mA		tion) configuration			
		+0.5mA	Warning: 1	0mA ±5%	
		nA ±10%	0	L5mA ±5%	
		A ±10%		100-600 Ω	
HART Protocol	Optional HART of	communications on the	e 0-20mA analog current	t (FSK) - used for maintenance,	
	configuration changes and asset management, available in mA source output wiring options				
RS-485	The RS-485 cor	nmunication link can b	e used in installations v	vith computerized controllers	
RS-485	The RS-485 is N	Nodbus compatible		•	
RS-485 Color Video Image	The RS-485 is M Accessible via a	Modbus compatible I standard NTSC or PA	L video output connectio	on that can be connected to	
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Color Video Image MECHANICAL SPE	The RS-485 is N Accessible via a standard video CIFICATIONS	Aodbus compatible standard NTSC or PA equipment for viewing,	L video output connection recording and scanning	on that can be connected to	
Color Video Image MECHANICAL SPEC Dimensions	The RS-485 is M Accessible via a standard video CIFICATIONS 4.7" x 5.2" x 5.2	Modbus compatible standard NTSC or PA equipment for viewing, 2" (120 x 132 x 132 m	L video output connection recording and scanning	on that can be connected to	
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Color Video Image MECHANICAL SPEC Dimensions Weight Enclosure Environmental Standards Water and Dust APPROVALS Hazardous Area Performance Reliability ACCESSORIES Fire Simulator 20/20-310 U	The RS-485 is M Accessible via a standard video CIFICATIONS 4.7" x 5.2" x 5.3 Aluminum: a St.St 316L: Aluminum, heav Optional - Stainl Meets MIL-STD-1 IP66 and IP67 p NEMA 250 6P ATEX UL GOST R FM3260	Aodbus compatible standard NTSC or PAI equipment for viewing, 2" (120 x 132 x 132 m 8.1lb (3.7 kg) 14.3lb (6.5 kg) y-duty copper free (les ess Steel 316L with e 810C for Humidity, Sali ber EN60529 EX II 2G, EEX EX II 2G, EEX Class I, Grou 1ExdIIBT5/H Ilculation	L video output connection recording and scanning hm) as than 1%), white epoxy lectro polish finish t & Fog, Vibration, Mecha d IIB + H <sub>2</sub> T4 (70°C) de IIB + H <sub>2</sub> T4 (70°C) ps C & D 2 Swivel Mount	20/20-003 (St. St. 316L)	
Color Video Image MECHANICAL SPEC Dimensions Weight Enclosure Environmental Standards Water and Dust APPROVALS Hazardous Area Performance Reliability ACCESSORIES Fire Simulator 20/20-310 U Duct Mount 794716-3	The RS-485 is M Accessible via a standard video of CIFICATIONS 4.7" x 5.2" x 5.3 Aluminum: 4 St.St 316L: 4 Aluminum, heav Optional - Stainl Meets MIL-STD- IP66 and IP67 p NEMA 250 6P ATEX UL GOST R FM3260 SIL2 per TUV ca	Aodbus compatible standard NTSC or PAI equipment for viewing, 2" (120 x 132 x 132 m 8.1lb (3.7 kg) 14.3lb (6.5 kg) y-duty copper free (les ess Steel 316L with e 810C for Humidity, Sali ber EN60529 EX II 2G, EEX EX II 2G, EEX Class I, Grou 1ExdIIBT5/H Ilculation 789260-2 (2" pole) 789260-1 (3" pole)	L video output connection recording and scanning hm) as than 1%), white epoxy lectro polish finish t & Fog, Vibration, Mecha d IIB + H <sub>2</sub> T4 (70°C) de IIB + H <sub>2</sub> T4 (70°C) ps C & D 2 Swivel Mount USB RS485 Harness	20/20-003 (St. St. 316L) 20/20-003 (St. St. 316L)	
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Color Video Image MECHANICAL SPEC Dimensions Weight Enclosure Environmental Standards Water and Dust APPROVALS Hazardous Area Performance Reliability ACCESSORIES Fire Simulator 20/20-310 U Duct Mount 794716-3 Sun Protector 780280 M	The RS-485 is M Accessible via a standard video of CIFICATIONS 4.7" x 5.2" x 5.3 Aluminum: 4 St.St 316L: 4 Aluminum, heav Optional - Stainl Meets MIL-STD- IP66 and IP67 p NEMA 250 6P ATEX UL GOST R FM3260 SIL2 per TUV ca	Aodbus compatible standard NTSC or PAI equipment for viewing, 2" (120 x 132 x 132 m 3.1lb (3.7 kg) 14.3lb (6.5 kg) y-duty copper free (less ess Steel 316L with e 810C for Humidity, Sali- ber EN60529 EX II 2G, EEX EX II 2G, EEX Class I, Grou 1ExdIIBT5/H Ilculation 789260-2 (2" pole) 789260-1 (3" pole) 777820 Authorized Dis GasDetectorsU	L video output connection recording and scanning mm) as than 1%), white epoxy lectro polish finish t & Fog, Vibration, Mecha d IIB + $H_2$ T4 (70°C) de IIB + $H_2$ T4 (70°C) ps C & D 2 Swivel Mount USB RS485 Harness Rain Cover stributor: USA.com	20/20-003 (St. St. 316L) 20/20-003 (St. St. 316L)	
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