



# SharpEye™ 20/20CTIN & CTIP

## GENERAL SPECIFICATIONS

<b>Spectral Response</b>	Three IR Bands	
<b>CCTV Picture</b>	Enables the user to identify a 1 ft <sup>2</sup> (0.1m <sup>2</sup> ) gasoline flame from 100 ft. (30m) offering a "live video" image of the monitored area.	
<b>Detection Range</b> (Highest Sensitivity Setting for 1 sq.ft. pan fire)	Gasoline fire at 200 ft (60m) N-Heptane fire at 200 ft (60m) Alcohol 95% fire at 150 ft (45m) Diesel Fuel fire at 140 ft (42m)	JP4 fire at 150 ft (45m) Kerosene fire at 150 ft (45m) Methane* fire at 60 ft (18m) Propane* fire at 60 ft (18m) <i>* 0.5m plume fire</i>
<b>Response Time</b>	Typical 5 sec.	
<b>Adjustable Time Delay</b>	Up to 30 seconds	
<b>Sensitive Range</b>	4 Sensitive Ranges for 1 ft <sup>2</sup> (0.1m <sup>2</sup> ) gasoline pan fire from 50 ft (15m) to 200 ft (60m)	
<b>Field of View</b>	IR3: 90° horizontal, 90° vertical      CCTV: 90° horizontal, 65° vertical	
<b>Built-in-Test</b>	Manual and Automatic BIT	
<b>Temperature Range</b>	Operating: -15°F (-10°C) to 131°F (55°C) Operating without Video: -40°F (-40°C) to 160°F (70°C) Storage: -22°F (-30°C) to 140°F (60°C)	
<b>Humidity</b>	Up to 95%	

## ELECTRICAL SPECIFICATIONS

<b>Power Supply</b>	Operating Voltage: 18-32 VDC
<b>Power Consumption</b>	Max. 150mA in stand-by; Max. 200mA in alarm
<b>Electrical Connection</b>	2 x 3/4" - 14NPT conduits or 2 x M25 x 1.5 mm ISO
<b>Electrical Input Protection</b>	According to MIL-STD-1275A
<b>Electromagnetic Compatibility</b>	EMI/RFI protected (comply to CE requirements)

## OUTPUTS

<b>Relays</b>	Alarm - 2A at 30 VDC, 0.5A at 250 VAC Fault - 5A at 30 VDC and 250 VAC Fault relay normally closed, others normally open
<b>4-20mA</b>	Sink (source option) configuration Fault: 0 +0.5mA BIT Fault: 2mA ±10% Normal: 5mA ±10% Warning: 10mA ±5% Alarm: 15mA ±5% Resistance Loop: 100-600 Ω
<b>RS-485</b>	The RS-485 communication link can be used in installations with computerized controllers. The RS-485 is Modbus compatible
<b>Color Video Image</b>	Accessible via a standard NTSC or PAL video output connection that can be connected to standard video equipment for viewing, recording and scanning video images.

## MECHANICAL SPECIFICATIONS

<b>Dimensions</b>	4.7" x 5.2" x 5.2" (120 x 132 x 132 mm)
<b>Weight</b>	Aluminum: 8.1Lb (3.7 Kg) St.St 316L: 14.3Lb (6.5 Kg)
<b>Enclosure</b>	Aluminum, heavy-duty copper free (less than 1%), white epoxy enamel finish. Optional - Stainless Steel 316L with electro polish finish.
<b>Environmental Standards</b>	Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Temp
<b>Water and Dust</b>	IP66 and IP67 per En60529 NEMA 250 6P

## HAZARDOUS AREA APPROVALS

<b>ATEX / Cenelec</b>	EX II 2G, EExd IIB + H <sub>2</sub> T5 (55°C) EX II 2G, EExde IIB + H <sub>2</sub> T5 (55°C)
<b>UL</b>	Class I, Groups C & D
<b>GOST R</b>	1ExdIIBT5/H <sub>2</sub>

## ACCESSORIES

<b>Fire Simulator</b>	20/20-310
<b>Swivel Mount</b>	20/20-003 (St. St. 316L)