

PROVIDING SAFETY SOLUTIONS

SINGLE UV FLAME DETECTOR

Ultra-Violet Detection Technology



ref.: Tucano: EXBCR0012

- Manual and automatic testing of optical surfaces monitors internal electronics
 - Compact and lightweight for ease of installation
 - Fully adjustable swivel mount is included
 - 3 Year Electronics and
 2 Year Sensor Warranty
 - 120 Degree Field of View!
 - User programmable sensitivity and time delay settings minimizes false alarm events
 - Operating Range of -50°C to +75°C
 - CSA, FM, ANSI/UL, ATEX, GOST-R and INMETRO Certified

Net Saf Single UV (Ultra-violet) flame detector delivers high performance detection designed to meet the strict industry performance requirements. A precisely tuned spectrum of radiation must be recognized and confirmed by our advanced UV sensor to initiate a fire condition, yet it is immune to incandescent or fluorescent lighting, heaters or sunlight — so false alarms are considerably reduced. The Single UV is designed for simple installation and lower maintenance costs while delivering superior safety performance.

Enclosed in a rugged, explosion-proof housing, the Single UV uses the latest in modular microprocessor and UV sensor technology — delivering accurate and reliable monitoring for hydrocarbon and metal-based fires. It's capable of stand-alone operation or can be connected to a variety of control devices to create a dependable fire monitoring system. The user can define sensitivity and time delay settings and the built-in testing routines ensure continous operation.

The Single UV has a Field of View of up to 120 degrees and is available with analog or analog/relay output configurations for 12 or 24 VDC systems — just let us know your requirements!

Net Saf has engineered a superior and affordable, UV flame detector that is simple to operate and maintain while delivering all the security and performance required for high-risk, industrial installations!

SINGLE UV FLAME DETECTOR

S" Series Ultra-violet Flame Detection

ref.: Tucano: EXBCR0012 "AR" VERSION **SPECIFICATIONS** "A" VERSION Operating Voltage Range 10 to 32 Vdc Power Consumption (at 24 Vdc) Nominal 32 mA / 0.768 W | Maximum 64 mA / 1.54W Nominal 51 mA / 1.23 W | Maximum 82 mA / 1.97W Certified -40°C to +75°C (-40°F to +167°F) / Operational -50°C to +75°C (-58°F to +167°F) Operating Temperature Range Field of View 120 degrees horizontal / 95 degrees vertical Spectral Range UV Radiation 185 to 260 nanometres (1850 to 2600 angstroms) Time Delay DIP switch selectable to 0, 3, 5, 7 seconds Sensitivity Settings DIP switch selectable to 8, 16, 24 or 32 counts per second Typical Response Time <4 seconds depending on fuel source, fire size and distance **Enclosure Material** Red powdercoat with clear anodizing, copper-free aluminum (optional stainless steel), factory sealed housing **Humidity Range** 0 to 95% RH, non-condensing Weight (with swivel) 2.1 Kg/4.5 lb (Stainless Steel option 3.4 Kg/7.5 lb) 0 to 20 mA - Into a maximum loop impedance of 800 Ohms Form C contacts rated 1 Amp at 30 Vdc, 0.5 Amp at 125 Vac Outputs at 32 V dc or 150 Ohms at 11.0 V dc. Non-isolated loop supply Selectable energized/de-energized, latching/non-latching Fire relay

Certifications

Warranty

Fault relay factory set as energized/non-latching, cannot be modified CSA - Class I, Division 1, Groups B, C and D - Temperature code T5 - CANADA: Class 1, Zone 1, Ex d IIB + H2 T5

ANSI/UL - Class I, Division 1, Groups B, Cand D - Temperature code T5 - UNITED STATES: Class 1, Zone 1, AEx d IIB + H2T5 ATEX - EEx d || B+H2T5 GOST-R - 1Ex d || BT5/H2 | INMETRO - BR-Ex d || B+H2T5

Factory Mutual (FM) 3260 Performance Certification NEMA Type 4X • IP66 - Endosure ratings

3 Years Electronics / 2 Years Sensors

PERFORMANCE

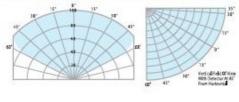
Summary of Distances

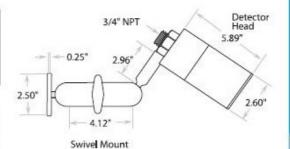
Fuel	Fire Size	Typical Response
n-heptane	1'x 1'	< 9sec @ 150 ft.
gasoline	1'x 1'	< 3sec @ 120 ft.
methane	36" plume	< 4sec @ 120 ft.

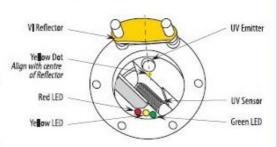
Immunity False Alarm Stimuli

Stimuli	Immunity Range	
Direct/indirect sunlight	total	
1500W heater	10 ft	
halogen, incandescent light	3 ft	
florescent light	10 ft	

Field of View - Methane (32" plume - distances indicated in feet)







ORDERING INFORMATION

UVS-A 0 to 20 mA Analog output UVS-AR 0 to 20 mA Analog output with a Fire and Fault alarm relay (includes junction box)

-X (ATEX), H- (Heated Optics), -SS (Stainless Steel)

NOTE: Specify flammable source when ordering

ACCESSORIES

JB-MPS-A - Junction Box (NEMA 4, IP67) c/w connector board (MVI switch) (Stainless Steel model available - JB-MPS-SS)

JB-MPNS-A - Junction Box (NEMA 4, IP67) c/w connector board (No MVI switch) (Stainless Steel model available - JB-MPNS-SS)

TL-UV/IR-KIT - Test Lamp Kit

LAT-120 - Laser Alignment Tool.

AIR-SHIELD - Air Shield (device protects lens from dirt build-up)

SSK-4 - Sunshade Kit



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Distributed by:

ISO 9001:2000