keep a SharpEye on your safety









40/40UFL 40/40L4-L4B 40/40U-UB





40/40U-UB UV Flame Detector

A low cost solution in a durable, high spec package



SharpEye`

The new 40/40 UV Flame Detector detects hydrocarbon-based fuel and gas fires, invisible hydrogen flames, and fires from hydrides, ammonia, silane and other organics. The 40/40U-UB is the most durable and weather resistant UV flame detector currently on the market. Its new features include a heated window, to eliminate condensation and icing; HART capabilities, for digital communications; lower power requirements; and a compact, lighter design.

Due to increased reliability, the 40/40 Series warranty period has been extended to 5 years and is SIL2 (TUV) approved to IEC 61508.

The model 40/40UB includes a Built-in-Test (BIT) feature, whereas the 40/40U model does not.

Note: This type of detector should not be exposed to UV radiation sources such as welding, sparks, and electric arcs as it will cause false alarms.

FEATURES & BENEFITS

- UV spectrum design
- Automatic and Manual Built-In-Test (BIT) to assure continued reliable operation (in 40/40UB only)
- Heated window for operation in harsh weather conditions (snow, ice, condensation)
- Multiple output options for maximum flexibility and compatibility
- Relays (3) for Alarm, Fault and Auxiliary - 0-20mA (stepped)
- HART Protocol for maintenance and asset management
- RS-485, Modbus Compatible
- High Reliability MTBF minimum 150,000 hours
- Approved to Safety Integrity Level 2 (SIL2 TUV) model 40/40UB only
- 5-Year Warranty
- User Programmable via HART or RS-485
- Hazardous area zones:
- Zones 1 & 2 with IIC gas group vapors present
- Zones 21 & 22 with IIIC dust type present
- Ex approved to:
 - ATEX & IECEx
 - FM/FMC/CSA
 - TR CU (EAC)
- 3rd party Performance Tested
 - EN54-10 (VdS)
 - FM3260

APPLICATIONS

Chemical plants Petrochemicals plants Power Generation facilities Pharmaceutical Industry Printing Industry Warehouses Automotive Industry Aerospace Explosives & Munitions Waste Disposal facilities Paint and solvent processes



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GENERAL SPECIFICATIONS

Detection Range Fuel ft / m Fuel ft / m Fuel ft / m Fuel ft / m ft / m Fuel ft / m ft / m ft / m Fuel ft / m ft / m ft / m ft / m Fuel ft / m / m <th m<="" th=""> / m <th m<="" th=""> <th <="" th=""><th>GENERAL SPECIFIC</th><th></th><th></th><th></th><th></th><th></th><th></th></th></th></th>	/ m <th m<="" th=""> <th <="" th=""><th>GENERAL SPECIFIC</th><th></th><th></th><th></th><th></th><th></th><th></th></th></th>	<th <="" th=""><th>GENERAL SPECIFIC</th><th></th><th></th><th></th><th></th><th></th><th></th></th>	<th>GENERAL SPECIFIC</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	GENERAL SPECIFIC						
at highest Sensitivity Setting or ATC (0.1m ²) pan fire) Diese Fleet 37 / 11 (Hz (tsporpoy) Atcohol) 37 / 11 Silane** 22 / 7 HZ (tsporpoy) 38 / 17 / 11 Silane** 21 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 17 / 15 / 15	Spectral Response						. .			
or 1ft ² (0.1m ²) pan fire) Gasoline 50 / 15 Methanol 25 / 7.5 Polypropylace Pellets 33 / 10 Piesel Fuel 37 / 11 Pie (scorpoyl kocho) 37 / 11 Sine** 22 / 7 Pis 37 / 11 Pieser 43 / 13 * 30 (1.57m High, 10* 0.25m width plane fire * 30 / 12 Office Paper 20 / 6 Kersonen 37 / 11 Methane** 43 / 13 * 30 (1.57m High, 10* 0.25m width plane fire * 30 / 10 Office Paper 20 / 6 Kersonen 37 / 11 Methane** * 43 / 13 * 30 (1.57m High, 10* 0.25m width plane fire * 30 / 10 Office Paper 20 / 6 Kersonen 37 / 11 Methane** * 30 / 12 Methane* * 30 / 12 Methane** * 40 / 10 Me										
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 * 30° (0.57m) Np. 10° (0.27m) vetrol plume fire * 30° (0.57m) Np. 10° (0.27m) vetrol sp3* * 30° (0.37m) vetrol sp3* <l< td=""><td></td><td></td><td></td><td></td><td></td><td>onice raper</td><td>20 / 0</td></l<>						onice raper	20 / 0			
**20° (0.5m) high. 2*(0.2m) width plame fre Exeponse Time Typically 35 seconds Adjustable Time Delay Up to 30 seconds Eventset Up to 30 seconds Simulti-In-Test (BIT) Automatic (and Manual) Field of View Horizontal 100°; Vertical 95° Subti-In-Test (BIT) Automatic (and Manual) Generature Range Operating: -67°F to +185°C; Option: -67°F to +185°C; Storage: -60°F to +185°C; Storage: -60°F to +185°C; Storage: -60°F to +185°C; Storage: -60°F		,			/ 10					
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Tield of View Horizontal 100°; Vertical 95° Jurti-In-Test (BT) Automatic (and Manual) Temperature Range Operating: -67°F to +185°F (-55°C to +75°C) Jurnal View Dy to 95% non-condensing (withstands up to 100% RH for short periods) Leaded Optics To eliminate condensation and icing on the window ELECTRICAL SPECIFICATIONS Porting: -67°F to +185° Porting: 0.00% RH for short periods) Standage: 2.4 VDC nominal (18-32 VDC) Porting: 0.010% RM and 0.00% RM and 0.00% Standage: 2.4 VDC nominal (18-32 VDC) Porting: 0.0110 RM and 0.00% RM and 0.00% Standage: 2.4 VDC nominal (18-32 VDC) Porting: 0.0310 RM and 0.0310 RM and 0.00% State Entries 2.4 3/4° - 14 NPT conduits or 2 x M25 x 1.5 mm ISO Viring: 1.2 - 2240K (0.3 mm² - 2.5 mm²) Electrical Instrace The detector includes twelve (12) terminals with five (5) wiring options (factory set) OUTPUTS OUTPUTS Potool 0.117 VM and 1.00% Resistance Locol 0.00 Strik (source option) configuration Fault: 0.4 mA ± 10% Resistance Locol 0.0100 And 1.4 5% HT and ± 10% Resistance Locol 0.0100 And 1.4 5% Strafess Stel 3161 with electro polish finish -100 Strafess 316 with electro polish finish Retorials -148 M ± 10% Resistance Locol	Adjustable Time Delay	Up to 30 seconds								
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Permperature Range Operating: -07*E 0+187*E (-58°C to -78°C) unmidity Up to 95% non-condensing (withstands up to 200% RH for short periods) Image: 0.77*E to +185°C Image: 0.77*E to +185°C leated Optics To eliminate condensation and icing on the window Image: 0.77*E to +185°C Image: 0.77*E to +185°C leated Optics To eliminate condensation and icing on the window Image: 0.77*E to +185°C Image: 0.77*E to +185°C leated Optics To eliminate condensation and icing on the window Image: 0.77*E to +185°C Image: 0.77*E to +185°C leated Optics To eliminate condensation and icing on the window Image: 0.77*E to +185°C Image: 0.77*E to +185°C leate Entries 2.4 VDC nominal (18.32 VDC) Image: 0.77*E to +185°C Image: 0.77*E to +185°C isetrical input Protection According to MIL-STD-1275B Image: 0.77*E to +185°C Image: 0.77*E to +185°C isetrical Interface The / Fath / To / The / T	Field of View									
Option: 6.7% to $+185\%$ $(55\%$ to $+85\%$)tunidityUp to 95% non-condensing (withstands up to 100% RH for short periods)teated OpticsTo eliminate condensation and icing on the windowELECTRICAL SPECIFICATIONSpersting Voltage24 VDC nominal (18.32 VDC)ower ConsumptionStandby: Max. 90mA ($110mA$ with heated window)Alarm:Max. 130mA ($160mA$ with heated window)Alarm:Max. 130mA ($120mA$ with heated window)able Entries $2.33/4^*$. $14MP$ condutes 72.3053 1.5 mm ISOTectrical Input ProtectionAccording to MLISTD 1275BTectrical Input ProtectionThe detector includes twelve (12) terminals with five (5) wing options (factory set)OUTPUTSElaysAlarm, Fault and AuxiliarySPST vol/free contacts rated 2A at 30V DC>200mA (stepped)Sink (source option) configurationFault: $0.4mA$ Normal:AmA ± 10%Alarm: $20mA \pm 5\%$ BIT Fault: $2mA \pm 10\%$ Normal:Alarm:20mA (stepped)Sink (source option) configuration configuration changes and asset management, available in mA source output wing optionsRectard StandardsNormal:-Stainless Steel 316L with electro polish finishActerials-Stainless Steel 316L with electro polish finish-Configuration Changes and action, Meets Min.15%, and posy duty copper free aluminum (des stan 13%), red posy enamel finish (not available in FM version fourtingStainless Steel 316L with electro polish finish-Configuration Changes Stand 23%, Maxin	· · /		/							
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Ower Consumption Standty: Max. 190mA (110mA with heated window) Alarm: Max. 130mA (160mA with heated window) Alarm: Max. 130mA (160mA with heated window) Table Entries 2 x 3/4" - 14NPT conduits or 2 x M25 x 1.5 mm ISO Viring 12 - 224WG (0.3mm ² - 25mm ²) According to MIL STD-1275B According to MIL STD-1275B Electrical Input Protection According to MIL STD-1275B Electroal Inferator The detector includes twelve (12) terminals with five (5) wiring options (factory set) OUTPUTS Alarm, Fault and Auxiliary SPST volt-free contacts rated 2A at 30V DC Sink (source option) configuration Fault: 0 +1mA Warning: 16mA ± 5% BIT Fault: 2mA ± 10% Resistance Loop: 100-600 (CFSK) - used for maintenance, configuration changes and asset management, available in MA source output wing options 15 4485 RS-485 Modbus compatible communication link that can be used in computer controlled installation: MetcHANICAL SPECIFICATIONS Materials Alarnies Steel 316L with electro polish finish inclosure options - Heavy duty coper free aluminum (less than 13%), red epoxy enamel finish (not available in FM version founting Stainless Steel 316L with electro polish finish - Stainless Steel 316L with electro polish finish <	ELECTRICAL SPECI	FICATIONS								
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Electromagnetic Compatibility EM//RFI protected to EN61326-3 and EN61000-6-3 Electrical Interface The detector includes twelve (12) terminals with five (5) wiring options (factory set) OUTPUTS Sink (source option) configuration Fault: 0 + 1mA Warning: 16mA ± 5% BIT Fault: 20mA ± 10% Normal: 4mA ± 10% Alarm: Variation Configuration Fault: 20mA ± 10% Alarm: 20mA ± 5% Normal: 4mA ± 10% Resistance Loop: 100-600 Ω 0 ART Protocol Optional HART communications on the 0-20mA analog current (FSK) - used for maintenance, configuration changes and asset management, available in mA source output wiring options R5-485 R5-485 Modbus compatible communication link that can be used in computer controlled installation: MECHANICAL SPECIFICATIONS Alarminum (less than 1%), red epoxy enamel finish (not available in FM version foounting Stainless Steel 316L with electro polish finish - Stainless Steel 316L with electro polish finish Internental Standards Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Tem Vater and Dust Inference IP66 and IP67 per EN60529, NEMA 250 6P APPROVALS Fat and IECEX Ex II 2 G D Ex the lic T106°C Db (-55°C	Wiring									
The detector includes twelve (12) terminals with five (5) wiring options (factory set) OUTPUTS Velay Alarm, Fault and Auxiliary SPST volt-free contacts rated 2A at 30V DC SPST volt-free contacts rated 2A at 30V DC Specific Contacts rated 2A at 30V DC Specific Contacts rated 2A at 30V DC Specific Contacts rated 2A at 30V DC OUTPUTS Value 2000 A analog current (FSK) - used for maintenance, configuration changes and asset management, available in mA source output wiring options Note Colspan="2">Stainless Steel 316L with electro polish finish Interestion Mounting Stainless Steel 316L with electro polish finish Interestion Mounting Stainless Steel 316L with electro polish finish Intere	Electrical Input Protection									
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