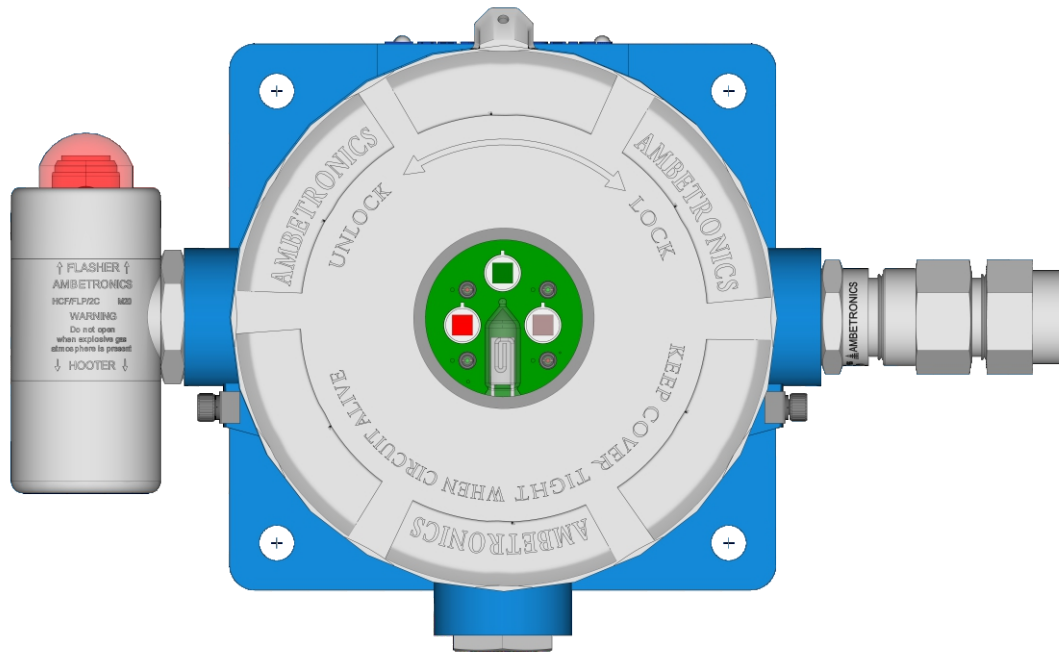


UV & TRIPLE IR FLAME DETECTOR



Features

- Detector detects Multi-Spectral Sensitivity of fire by using UV & IR sensors
- Line of Sight visual range (upto specific distance)
- Triple Spectrum Design- For long distance detection & Excellent false alarm immunity
- Sensitivity Selection - To ensure no zone cross over detection.
- High sensitivity combined with fast response time to ensure rapid & accurate flame detection.
- The high dynamic range allows detection of small & large flames, nearby or over large distance.
- Multiple output options for maximum flexibility and compatibility.
 - (3) Relays for FLAME DETECTION, AUXILIARY and FAULT
 - 0-20mA (Stepped)
 - Optional HART protocol for configuration setting
 - RS-485, MODBUS compatible
- High Reliability
- User programmable via Bluetooth, HART or RS-485.

Approval & Compliance

- Approval & Compliance for Flameproof :
Certified to EX-d IIC, IP66
- Standard Compliance :
 - IS/IEC 60079-0 : 2004
 - IS/IEC 60079-1 : 2007
 - IS/IEC 60529 : 2001

Applications

- Battery Storage Rooms / Data Communication
- Clean Rooms: Semi-conductor, Pharmaceutical & Hospital Operating Rooms
- Onshore & Offshore Oil & Gas Installations & Pipelines
- Engine Test Cells / Rooms
- Indoor Chemical, Fuel & Solvent Storage
- Laboratories
- Monitoring Of Machinery
- Refineries
- Chemical Plants
- Nuclear Power Sites
- Waste Recycling
- High Voltage Equipment / Power Plants
- Petrochemical CNG / LNG / LPG Production
- Military Applications / Marine Applications

TECHNICAL SPECIFICATIONS

GENERAL

- Parameter Setting : Field configuration settings done by Bluetooth or MODBUS RTU Protocol.
- Spectral Response : UV Band - (185nm to 260nm)
Three IR Bands - (3000nm to 5000nm)
- Detection Range : • n-Heptane : 88ft (27m)
• Kerosene : 82ft (25m)
(At highest sensitivity Setting for 1ft² pan fire)
• Diesel Fuel : 82ft (25m)
• Methanol : 66ft (20m)
• Gasoline : 82ft (25m)

PERFORMANCE

- Response Time : Typically Less than 3 seconds (Depending on Flame Size & Sensitivity)
- Adjustable Time Delay : Upto 30 seconds
- Field of View : 100° Horizontal, 90° Vertical, 120° Diagonal cone vision

ELECTRICAL

- Supply Voltage : 18 to 36 VDC, typically 24VDC
- Power Consumption : Less than 3W

OUTPUT SIGNAL

- 4-20mA Current Output : 250 to 600 ohms load driving capacity.
- Fault : 1mA Normal : 4mA
Fire detect : 20mA
- LED Indication : Blinking POWER LED, FIRE DETECT LED & COMMUNICATION LED
- Relay : Three SPDT relays 2A @ 24 VDC or 120 VAC for Fail safe, Fire detection & Auxiliary output. If Hooter Cum Flasher is Connected, then only AUXILIARY and FAIL SAFE RELAY output available.
- Communication : RS-485 communication port with MODBUS RTU protocol.
HART Protocol : use for configuration changes by using AEPL Communicator
(Proprietary optional)

ENVIRONMENTAL

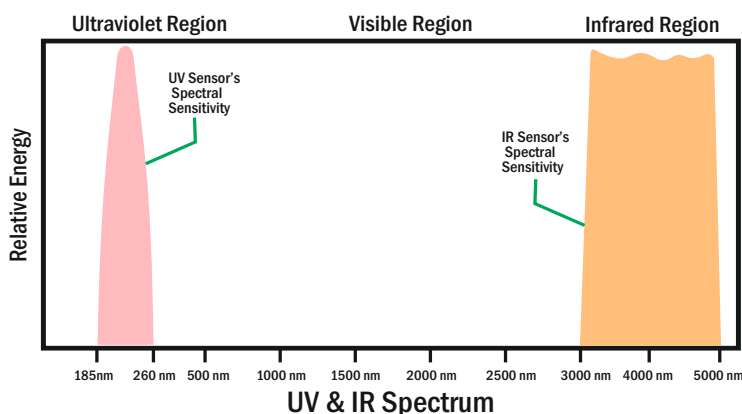
- Operating Temperature : -15°C to +50°C
Storage Temperature : -20°C to +85°C
Humidity : Less than 95% Non-Condensing.

ACCESSORIES (OPTIONAL)

- RS-485 to USB OR RS-232 convertor • Hooter Cum Flasher
• Protection Cover

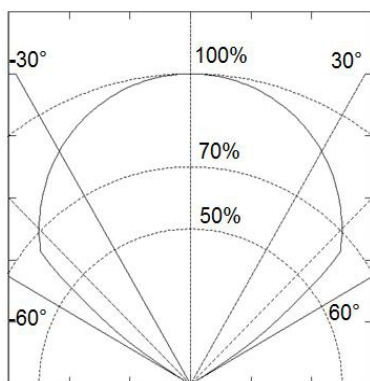
FLAMEPROOF HOUSING

- Protection Class : IP-66
Cabinet Material : Cast Aluminium alloy, LM-6 or Stainless Steel SS-316
Cable Entry : Double Compression Cable Gland (Ex-Proof) M20 X 1.5P
Wiring : 12-22AWG (2.5mm²- 0.3 mm²)
Dimension : i) 155mm (H) Stopper plug x 263mm (W) with Hooter & cable gland x 125mm (D)
ii) 155mm (H) with Stopper plug x 223mm (W) with Stopper plug & cable gland x 125mm (D)
Mounting : Wall Mounting Stand
Weight : Approx 2.53kg (LM 6) / 7.00 kg (SS-316)

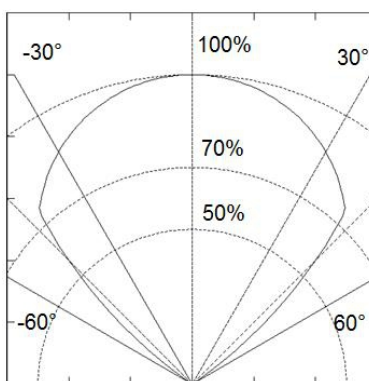


FIELD OF VIEW

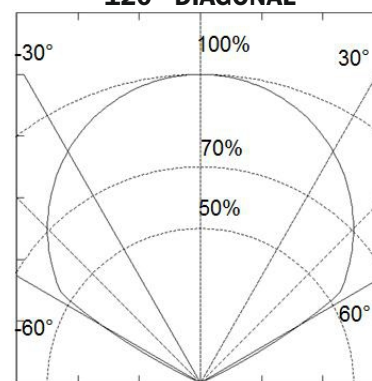
100° HORIZONTAL



90° VERTICAL



120° DIAGONAL



ORDERING INFORMATION

FLD-3311-FLP-UV&IR3 —

A

- A) Enclosure (FLP)**
1) LM-6
2) SS-316

B

- B) Transmission Output**
1) 4-20mA
2) 4-20mA with HART

C

- C) Hooter Cum Flasher**
1) No
2) Yes

D

- D) Protection Cover**
1) No
2) Yes

* if Hooter Cum Flasher is Connected then only Auxiliary, Fail Safe Relay Output available.

* Before placing order please Refer the above ordering information or Contact below address for assistance.

Specifications subject to change without any prior notice

Manufactured by :

AMBETRONICS ENGINEERS PVT. LTD.

17-B, Tarun Industrial Estate, Mogra Pada, New Nagardas Road, Andheri (E.) Mumbai - 400 069, India.
Mob.: 9320619646 • 9167418106 • Tel.: +91-22-61673000/27, 28371143 • Fax: +91-22-28226570

E-mail : project@ambetronics.com • project4@ambetronics.com • sales@ambetronics.com Web : www.ambetronics.com



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