

IDD-UV FLAME DETECTOR



FLAME DETECTORS

Reliable Flame Detection For Gas and Light Oil.

Forney's Intelligent Dynamic Detector UV version is designed to accurately detect and discriminate the radiation produced by the combustion of natural gas or light oil.

The Intelligent Dynamic Detector (IDD-UV) is used in conjunction with Forney's supporting amplifiers DR-6101E, DR-6101, RM-IDD, IDD-III A.

The IDD-UV solid state circuitry amplifies a continuously changing voltage signal transmitted from the Cadmium Sulphide (CdS) sensor when flame is sensed. This signal is sent to the amplifier by way of a four conductor cable. The amplifier processes the signal and provides outputs to the burner management system.

For trouble-free operation, the electronics of the detector are potted within the cast aluminum housing. In addition, the amplifier also initiates a periodic check of the sensor and printed circuit board to verify proper operation of the detector assembly, eliminating the need for a mechanical shutter.



- **ELECTRONIC SELF CHECK** - No mechanical shutter which reduces maintenance costs.
- **FM APPROVAL** - Factory Mutual approval means safe operation and lower insurance rates.
- **DYNAMIC FLAME SENSING CIRCUITRY** - Senses only a dynamic flame signal, not hot refractory.
- **SIMPLIFIED MAINTENANCE** - Quick disconnect electrical and mechanical connections are used for easy replacement.
- **COMPACT, DURABLE ASSEMBLY** - The printed circuit board and sensor are potted within a cast aluminum housing providing a maintenance free component.
- **FIBER OPTIC CONNECTIONS** - Optional fixtures are available for fiber optic applications.



Re-powering your world





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INTELLIGENT DYNAMIC FLAME DETECTOR

PRODUCTS AND ACCESSORIES

IDD-UV SOLID STATE UV	Part #40235401
Cooling Chamber (optional)	Part #38107101

SPECIFICATIONS

Mounting:	1" NPT sight pipe fitting
Materials:	Cast Aluminum Housing, Potted Electronics
Electrical:	Supplied by Amplifier, 50VDC and 12VDC
Electrical Connections:	MS Bayonet connector supplied with cable, 1/2" flexible conduit required
Temperature Ratings:	32°F to 140°F, 0° to 60°C, up to 180°F (82°C) with the optional cooling chamber
Humidity:	0-95% Rh-Non-condensing
Shipping Weight:	21 oz
Cooling Air:	10 SCFM
Approvals:	Factory Mutual
Sensor / Wavelength:	Cadmium Sulphide (CdS) / 300-380nm

