



# UV Flame Detectors

## FLV40 - FLV40A

### TECHNICAL INFORMATIONS

#### Applications

- storehouses of oil, benzine, petroleum derivate etc
- storehouses of paint
- storehouses of paper
- storehouses of wood
- chemical laboratory
- storehouses of inflammable gas

#### Technical Advantages

- easy installation
- fast response time
- little frequent and inexpensive maintenance
- immunity to the false alarms
- immunity to the interference from IR radiations

The flame detectors FLV40 and FLV40A (equipped with guidance support) are suitable for fittings of fireproof electronic detection where the speed to produce a alarm signal is of primary importance.

They are able to reveal the presence of a flame (flame target - you see technical data more before) up to 20 m of distance from the apparatus.

The FLV40 find particular application in the places where a fire can develop in rapid way, as for instance in the stores of oil products, varnishes, material plastic, alcohols, ecc.

The principle of operation of this detector is the revelation of the ultraviolet component of the flame.

The flame in fact emits a spectrum of very ample radiations that they go from the ultraviolet field up to the infrared one. The revelation of the ultraviolet component (UV) is a certain proof of presence of flame.

A special UV sensor looks the guarded zone across an opportune window.

When interior of this zone it burns a flame due to beginning of fire, the UV radiations emitted by the same flame, come quickly revealed by the sensor that, through opportune associated electronics, it drives an opportune output relay which can control an optical and acoustic alarm system.

Particular care has been set in the planning to make the detector to immune to the false alarms.

The apparatus is easy to be installed and it results particularly reliable.

FLV40



FLV40A



#### Technical Data

- Power supply: 12/24 Vcc
- Current: 15mA - 30mA (alarm condition)
- Protection against the inversion of polarity
- Distance of flame detection: 20 m (gasoline fire 20x20 cm - height 20 cm)
- Optical angle of vision: 60 degrees
- Internal trimmer for regulation of time delay
- Output alarm relay: 1/A/24 Vcc
- Enclosure material: polycarbonate plastic
- Protection: IP 55 (IEC 529-144)
- electromagnetic immunity: En50081-1; En50082-1; IEC 801-2-3-4
- Dimensions: 120x75x85 mm
- Weight: 400gr.

