

UV Flame Detector UniVario Type FMX5000UV.ESSER

- **Meets highest European requirements in compliance with EN 54-10 Class 1**
- **Pollution control and monitoring of UV sensor functions**
- **Easy connection to IQ8Control Fire Alarm Control Panel via esserbus transponder**
- **2-detector dependency type B programmable at the esserbus transponder**
- **Use in severe environmental conditions according to IP 67**
- **Easy mounting of the UV Flame Detector via the UniVario Standard Base**



Customized detection

The UniVario UV Flame Detector is used for the recognition of rapid flame development. It detects in the ultraviolet spectrum of light with a wavelength of 185 to 260 nm in compliance with the highest requirements of the EN 54-10 Class 1.

Functional reliability through self-monitoring function

The UniVario UV flame detector is equipped with an internal self-monitoring function which regularly tests the built-in UV sensor's function and directly forwards faults to the IQ8Control fire alarm control panel (FACP) via the UniVario esserbus transponder. The input voltage, internal circuit components and the temperature are also checked and faults are passed on to the FACP.

Intelligent integration into the fire alarm system

The UniVario UV flame detector is part of the IQ8 fire detection system and was therefore tested and certified correspondingly. The integration of the UniVario into the ESSER system occurs via the esserbus transponder. This component was specially designed for the connec-

tion of the UniVario detectors and facilitates the easy two-wire connection of the UV flame detector to up to four detector group inputs. It reliably transmits alarms as well as faults of any kind to the FACP. The integrated reset functionality of the relay outputs contained on the transponder is especially useful. This is not only important for implementing controls but the relays can also be used as reset relays through simple reprogramming. With this functionality the UniVario detectors are safely reset to standby after an alarm. A feature which makes the connection easier and is economical since additional reset elements are not needed, and no additional wiring has to be carried out.

Line monitoring via intelligent terminating devices

The line monitoring of the UniVario UV flame detector is carried out according to the strict criteria of European compatibility requirements for fire alarm systems in compliance with the EN 54-13. With the esserbus transponder, the UniVario UV flame detectors are monitored for line faults using so-called end-of-line components (EOL). Even creeping interruptions and short circuits in the form of transfer resistance on the line, for example through incorrect connection of the detector, are immediately recognized by these terminating devices and reported to the FACP as a fault.

2-detector dependency type B

For fire monitoring and direct notification to the fire department, the esserbus transponder can be easily programmed for 2-detector dependency type B (formerly cross-zoning) via the ESSER tools 8000 programming and service software in compliance with the DIN VDE 0833-2. Thus it is guaranteed that the fire department is notified only when at least two fire incidents are reported by the connected UniVario detectors.

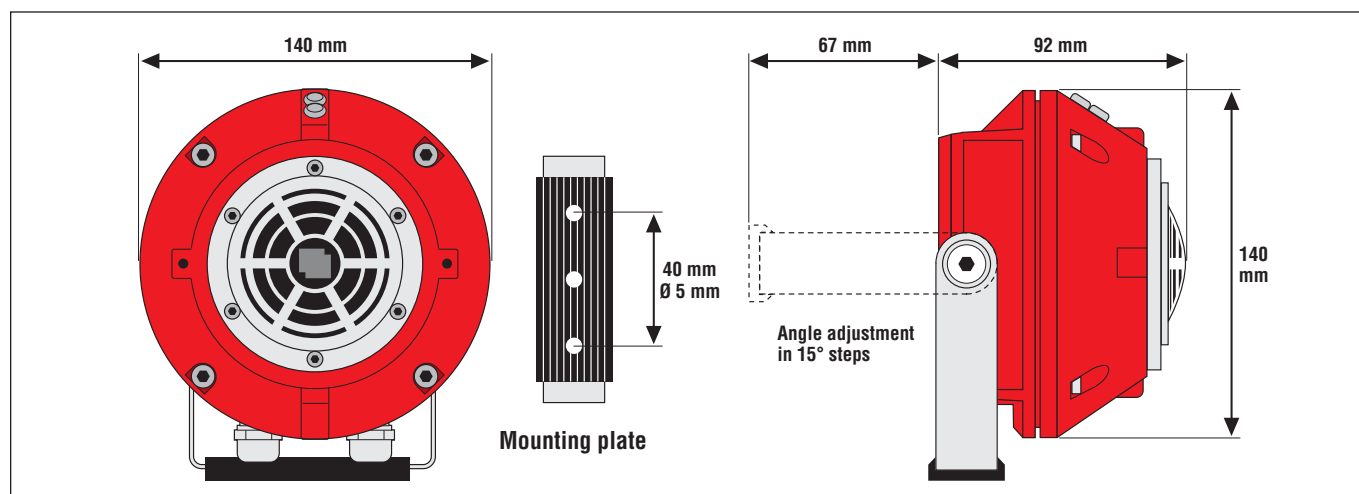
UniVario: rough and rugged

The UniVario UV Flame Detector was designed to meet the requirements of industrial application. Through its extremely robust design it meets these requirements according to IP 67 and can be easily employed even in exterior areas under the most difficult conditions.

Typical areas of application are: fuel tanks, plane and helicopter hangars, compression stations (natural gas), chip and semiconductor manufacturing and industrial workshops.

Easy mounting using the base principle

The well-proven base principle is used for mounting. The UV flame detector head is mounted to the base via the attached Allen screws. Should a detector exchange become necessary, it is simply removed from the base and replaced with a new UV flame detector head.



Dimension drawing UV Flame Detector UniVario

Technical Data

Operating voltage	9 V DC
Quiescent current @ 9 V DC	approx. 0.5 mA
Alarm current @ 9 V DC	approx. 15 mA
Height to be monitored	max. 45 m
Area to be monitored	max. 676 m ²
Angle of vision	90°
No. of detector/zone	1
Application temperature	-20 °C to +80 °C
Storage temperature	-40 °C to +85 °C
relative humidity	≤ 95% (noncondensing)
Type of protection	IP 67
Housing	aluminum diecast
Colour	red, similar to RAL 3000
Weight	approx. 945 g (incl. base and bracket)
Dimensions (W x H x D)	130 x 140 x 92 mm
VDS approval	G 208131

Order Information

	Part No.
UV Flame Detector UniVario Type FMX5000UV.ESSER	782313
Mounting bracket for UniVario Flame Detector	783312
UniVario MX5000.ESSER standard base	783313
esserbus transponder for UniVario	808622
EOL-Z module for detector groups	808625
esserbus transponder housing surface mount, white	788650.10
esserbus transponder housing flush mount, white	788651.10
esserbus transponder housing surface mount, grey	788600
esserbus transponder housing flush mount, grey	788601

For further order data please refer to our "Fire Alarm Technology" product line catalogue.

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