

# MHG 531

## Flame Detector

The MHG 531 Flame Detector is intended for the automatic fire alarm signalling as a flame detector in the Electric Fire Detection and Alarm System LITES.



It is to use at locations of anticipated flame occurrence. It works on the principle of detection of scattered infrared radiation of a flaming fire.

**The MHG 531 Detector is meant for cooperation with the Control and Indicating Equipments (C.I.E.) MHU 106 (by the help of the JSM-5 loop group), MHU 108 and MHU 113. Through the use of the Addressing Unit MHY 409 it is also possible to connect the detector to the addressable C.I.E. MHU 109 and to the analogue C.I.E.'s MHU 110 and MHU 111. To the line of a fire loop the detector is to connect by means of the MHY 734 Base. As parallel signalling the Signal Indicators MHS 409, MHS 408 (MHS 407, MHS 405) can be used.**

For its use in the Electric Fire Detection and Alarm System the detector is liable to the compliance examination according to law No. 22/1997 Sb., in wording law No. 71/2000 Sb. and the relevant orders of the government. The detector is not intended for environs with explosion danger. It conforms to the European Norm EN 54-10.

### Technical specifications

Supply voltage	16 ÷ 24 Vss
Rated supply voltage	21,5 Vss
Steady state current	max. 200 µA
Current at fire alarm	max. 100 mA restricted by the C.I.E.
Voltage at fire alarm	6 ÷ 8 V at 10 mA
Optical signalling in the detector	a couple of red LED observation angle 360°
Parallel signalling	type LITES
Flame sensitivity according to the methodics EN 54-10	2/17m class
Vision angle	90° (55° according to EN 54-10)
Detector sensitivity wavelenght	4,3 µm
Flaming sensitivity frequency	2 ÷ 10 Hz
Testing procedure	by the Test Bar MHY 533
Protection according to ČSN EN 60529	IP 43
Radioscreening degree according to ČSN EN 55 022	B-class equipment
Dimensions	(98 x 54) mm
Weight	c. 200 g
Safety requirements	Product intended for a plant with safety arrangement in terms of ČSN EN 60950

### Working conditions

The MHG 531 Flame Detector is intended for the interior of objects without occurrence of aggressive substances, and for places where its protection and climatic immunity conform, and where sudden temperature changes leading to dew and ice accretion don't occur.	
Working temperature range	-25°C ÷ +70°C
Relative humidity	max. 95% at +40°C (max. 100 hours per year)

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