

# MHG 362

## Heat Detector

The MHG 361 Heat Detector is a self-acting detector intended for the automatic fire alarm signalling as a heat detector of the analog and addressable Electric Fire Detection and Alarm System LITES. It responds to a fixed reached temperature level or to a temperature change before or during a fire.



The MHG 361 MHG 362 detector is meant for cooperation with the analog Control and Indicating Equipments (C.I.E.) MHU 110, MHU 111, MHU 115, MHU 116, MHU 117, eventually with the addressable C.I.E. MHU 109. The detector contains a program that evaluates the fire situation pursuant to measuring of surrounding temperature, namely in agreement with the following adjustable characteristics:

- the threshold temperature - at this temperature level the fire alert puts on; it can be set in the interval 45°C - 90°C at 3°C

- the temperature change that leads to an alert (so-called differential part); it may be set in the interval 10°C - 45°C at 5°C; eventually the reaction to the temperature change may be not allowed

- the minimum average speed (steepness) of the temperature increase so that it comes to a respond to the differential part, if it's allowed; it may be set at c. 3°C/min or 10°C/min

- the minimum temperature that must be reached at a fire alert and also at the reaction of the differential part; it can be set from 0°C up to the threshold temperature in seven equidistant steps

Further the pre-alert in the interval between 3°C and 24°C before the alert can be adjusted (applies only for the C.I.E.'s MHU 110 and MHU 111). If the evaluated temperatures are too low, too high, or they do not make sense, the detector signals a fault.

The adjustable characteristics can be set either into the configuration program and recorded to the detector through the C.I.E. (MHU 110 or MHU 111), or they can be programmed right by means of the preparation MHY 535 (MHU 109).

The detector is to install into the MHY 734 Base, or into the Base MHY 734.028 with audible signalling, at the installation it is possible to use the Mounting Bar Stock MHY 736.

The detectors comply with the standard specifications ČSN EN 54-5. For its use in the Electric Fire Detection and Alarm System it 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.

### Technical specifications

Power supply	Addressable C.I.E.'s LITES
Optical signalling	a couple of red LED (light emitting diodes)
Parallel signalling	type LITES
Response temperature Tx of the static element	adjustable 45 ÷ 90°C
Reaction temperature at temperature rise	adjustable DT = 10 ÷ 45°C
Detector classification according to ČSN EN 54-5	*
Theoretical normal surrounding temperature	(Tx - 37)°C
Maximum normal surrounding temperature	(Tx - 12)°C
Testing procedure	by the test bar MHY 533 by a test from the C.I.E.

Protection according to ČSN EN 60529	IP44
Radioscreening degree according to ČSN EN 55 022	B-class equipment
Address setting	by the Addressing Preparation MHY 535 in the range 1 ÷ 128
Dimensions and form	(98 x 42) mm
Weight	c. 0,1 kg
Safety requirements	Product intended for a plant with safety arrangement in terms of ČSN EN 60950

\* It is possible to set the classifications A1, A1S, A1R, A2, A2S, A2R, B, BS, BR to these detectors. The detectors may also be adjusted in a way so that they don't conform to any classification according to ČSN EN 54-5.

### Working conditions

The MHG 361 Heat 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 to +70°C
Relative humidity	Permanent ≤ 75% 3 × 21 days in a year 95% at +40°C
Atmospheric pressure	(86 ÷ 106) kPa

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