

MHG 385 Heat Detector

The MHG 385 Heat Detector is a self-acting detector of the Electric Fire Detection and Alarm System LITES intended for the automatic fire alarm signalling (rising fire) as a detector responding to an increased temperature rising before or during a fire.



The MHG 385 Detector is manufactured in so-called voltage characteristic. It is especially intended for environs with explosion hazard, namely in cooperation with the Control and Indicating Equipments (C.I.E.) MHU 106, MHU 108, MHU 113, MHU 109, MHU 110 and MHU 111. With the MHU 106 C.I.E. the MHG 385 Detector may be used in connection with the JSM-5 loop. The connection to the addressable MHU 109 C.I.E., or to the analog MHU 110 (MHU 111) C.I.E. is to make by the help of the MHY 409 Addressing Unit. The connection to a fire loop is to carry out by means of the MHY 703 Mounting Base, eventually by means of the MHY 713 Mounting Base in environments without explosion hazard. As parallel signalling the signal lamps MHS 409, MHS 408 (MHS 405, MHS 407) can be used.

The detector may work:

- in environments with combustible gas or vapours explosion hazard according to ČSN 33 2320
- in environments with combustible dust explosion hazard according to ČSN 33 2330
- in environments with explosion hazard of explosives according to ČSN 33 2340

The detectors are produced in these versions:

MHG 385.058 – conforms to the A2 class of the ČSN EN 54-5 standard

MHG 385.059 - conforms to the B class of the ČSN EN 54-5 standard

For its use in the Electric Fire Detection and Alarm System the detector is liable to the conformity examination according to law No. 22/1997 Sb., in wording law No. 71/2000 Sb. and the relevant orders of the government. For the use in explosion hazard environs the detector is liable to the homologation of the FTZÚ Ostrava - Radvanice A0 210.

Technical specifications

Supply voltage	16 ÷ 26 Vss
Rated voltage	21,5 Vss
Maximum admissible voltage	30 Vss
Steady state current MHG 385.058	max. 35 µA
MHG 385.059	max. 50 µA
Current at alarm	max. 100 mA limited by the C.I.E.
Voltage at alarm	6 ÷ 8 V at 10 mA
Optical signalling	a red LED
Parallel signalling	type LITES
Static element response temperature	
MHG 385.058	54 ÷ 70 °C
MHG 385.059	69 ÷ 85 °C
Theoretic normal surrounding temperature	

MHG 385.058	25°C
MHG 385.059	40°C

Maximum normal surrounding temperature

MHG 385.058	50°C
MHG 385.059	65°C

Construction according to ČSN EN 50014	EExe II T6
Testing	by the MHY 533 Testing Rod
Protection according to ČSN EN 60529	IP 54
Radioscreening degree according to ČSN EN 55022	B-class equipment
Dimensions	∅147 × 37 mm
Weight	c. 500 g

The detector is intended for a plant with safety arrangement in terms of ČSN EN 60950.

Working conditions

The MHG 385 Heat Detector is intended for the interior of objects without occurrence of aggressive substances, and for places where its protection and climatic endurance 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	max. 95% at +40°C (3 × 21 days in a year)
Atmospheric pressure	66 - 106 kPa

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