

MHG 186

Ionization Smoke Detector

Ionization smoke detector MHG 186 is heavy fire detector, intended in cooperation with addressable and conventional (non addressable) control and indicating equipment LITES for automatic signalling of arising fires as a detector responsive to combustion products - both visible and invisible smoke particles (aerosols).



Ionization smoke detector MHG 186 is intended for use in areas protected against atmospheric conditions and wherever it suits its coverage and climatic resistance and where there are no sudden changes in temperature leading to sweating and icing. Ionization smoke detector MHG 186 complies with the ČSN EN 54-7.

Ionization smoke detector MHG 186 is designed for an environment in which the ionization smoke detector of light construction cannot be used, e.g. by increased demands on mechanical strength. It is placed in the place of the occurrence and concentration of smoke in buildings with materials which during smouldering or burning develop a smoke.

Ionization smoke detector is connectable to the addressable CIE MHU 109, MHU 110, MHU 111, MHU 115, MHU 116, MHU 117 and non addressable CIE MHU 102, MHU 103, MHU 106, MHU 108 and MHU 113 by base MHY 713. To the ionization smoke detector MHG 186 it is possible to connect Remote light indicator MHS 409 (MHS 407.123) or heavy one MHS 408.

Technical specifications

Addressable line

Supply voltage	(17 ÷ 21) V _{imp}
Equivalent current	150 µA
Address range	1 ÷ 128

Conventional line

Supply voltage	(16 ÷ 24) V _{DC}
Rated voltage	21.5 V _{DC}
Current during a fire alarm	
- current setting	15 ÷ 21 mA
- voltage setting	max 100 mA (limited by the C.I.E.) (5.7 ÷ 8) V at 10mA
Optical signalling	red LED
Parallel signalling	type LITES MHS 408, MHS 409
Informative sensitivity to smoke	y = 0.3 to 0.65

By EN 54-7 the detector reacts to an aerosol in a smoke tunnel.

Source of radiation Am241, 35 kBq ± 20%

The detector is intended to operation with safety equipment in the sense of ČSN EN 60950.

Protection according to ČSN EN 60529

sensor 6XF 817 140

body with base MHY 713

Radio screening degree after ČSN EN 55022

Dimensions

Weight

IP 43

IP 54

B-class equipment

∅147 × 75 mm

cc 600 g

Working conditions

The MHG 142 Ionization smoke 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

(86 - 106) kPa

Velocity of air

max. 8 m/s

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