

MHG 664

Linear Smoke Detector

The interactive and autonomous Linear smoke detector MHG 664 with servomotors for optics adjustment and laser pointer is intended for automatic fire signalling as smoke detector in analogue addressable and conventional Fire Detection and Fire Alarm System LITES.



It is intended to indicate a rising fire on the principle of reducing the infrared ray trough smoke particles. Linear smoke detector is placed at locations of anticipated smoke occurrence and concentration.

Interactive Linear smoke detector MHG 664 in a reflex version is intended for up to 100m. It consists of transmitter and receiver on a printed circuit board, which is along with the optical system placed in a plastic box with a window for the infrared beam. The detector is equipped with servomotors and laser pointer for optics adjustment.

To each detector is connected the Indicating preparation MHY 740. For adjustment of the detector serve the preparations MHY 536, MHY 537 or MHY 538, which also serve as a control unit for autonomous use of the detector.

The detector operates in regimes:

- interactive using analogue communication with C.I.E. MHU 110, MHU 111, MHU 115, MHU 116, MHU 117,
- interactive with contact outputs Alarm and Fault for connection to conventional C.I.E.,
- interactive with contact outputs Alarm and Fault for autonomous regime or for connection to C.I.E. of other manufacturers.

Technical parameters

Power supply	addressable regime	addressable C.I.E. LITES
	autonomous regime	$(10 \div 24) V_{DC}$
Standby current		max. 300 μA (according to range)
Fire alarm current	addressable regime	max. 35 mA
		(according to connected signalling)
	autonomous regime	40 mA at 24 V_{DC}
		100 mA at 10 V_{DC}
Optical signalling		red LED Alarm in indicating preparation
		yellow LED Fault in indicating preparation
Sensitivity		20, 40, 60% absorption of beam by smoke
Reaction time		fast (~ 3s)
		slow (~ 10s)
Output relay	max. switched voltage	176 $V_{DC}/125 V_{AC}$
	max. switched current	1A
	max. switched power	30W/60VA
Range		$(10 \div 100) m$

Protected area		max. (100 x 14) m
Testing procedure		by means of a reducing attenuator
Protection according to ČSN EN 60529		IP54
Radio screening degree according to ČSN 55022		B-class equipment
Setting of an address		by addressing preparation MHY 535, MHY 536 or adjustment preparation MHY 537, MHY 538
Cross-section of connectable wires		(0,2 ÷ 1,5) mm ²
Weight		600g
Dimensions	MHG 664	130 x 130 x 100 mm
	Reflex glass	100 x 100 mm for up to 50m 400 x 400 mm for up to 100m

Working conditions

The MHG 664 Linear smoke 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
Atmospheric pressure	66 ÷ 106 kPa
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