

## Linear heat detector LWM-1, DE/EN



### Part-No.: 761290

The LWM-1 enables early detection of fires or overheating. It is specifically designed for application in narrow rooms or rough environmental conditions. The system consists of an LWM-1 evaluation unit and a special sensor cable, which must be selected according to the type of application. The integration on the loop and the resetting function is carried out via the esserbus transponder Part No. 808623.

Integration of a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24V DC for the galvanic separation of D.C. voltage potentials and the voltage converter Part No. 781337 must be used in order to avoid ground faults.

Temperature resistance of sensor cable:

-5°C = special item needed, OEM reference 1180010

> -60°C = special item needed, OEM reference 1180011

### Features:

- Maximum sensor cable length of 300 m
- Resistant against mechanical and chemical impact, corrosion, humidity and dust
- Easy to install, economic, low-maintenance
- Calibration switch setting
- VdS approval as per EN 54-5 A1 applicable up to 7.5 m ceiling height
- Suitable for application in hazardous areas
- Early fire detection with heat detector classes A1, A2, B and C
- High chemical and / or mechanical resistance by using special sensor cables
- 3 floating relay contacts for max. alarm / diff. alarm and fault
- Separate reset input for resetting via esserbus transponder 808623 during loop operation
- Test button for simulating alarm, fault and LED test

Operating voltage	10 ... 30 V DC
Quiescent current @ 24 V DC	approx. 25 mA
Current consumption @ 24 V DC	approx. 25 mA (DIFF- or MAX-alarm)
Starting current @ 24 V DC	< 100 mA
Current consumption in the case of failure	max. 15 mA
Display	LED green: in operation, permanent light; LED red: alarm diff., permanent light, locked; LED red: alarm max., permanent light, locked; LED yellow: fault, flashing light, locked
Range	max. 300 m, dependent on ambient temperature
Temperature range	-20 °C ... 50 °C
Air humidity	< 95 %
Type of protection	IP 65
Material	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 550 g
Maximum sensor length	300 m
Dimensions	W: 200 mm H: 120 mm D: 80 mm



The item can be ordered exclusively for grandfathered buildings to exchange or expand an existing LWM-1 system. For application in Ex areas please read the instructions in the manual.