

# Line Smoke Detector LRMX

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- **Motorized detector head**
- **User-friendly commissioning via automatic self-adjustment**
- **Disturbance-free operation via automatic electro-mechanical tracking of detector head during building movements**
- **Optimal access via remote operating unit**
- **Clear representation of all states via central display on operating unit**
- **High level of IP protection for use under difficult environmental conditions**
- **Activation and reset via esserbus transponder 808613.10**
- **Range from 5 up to 100 m**
- **Large selection of accessories**



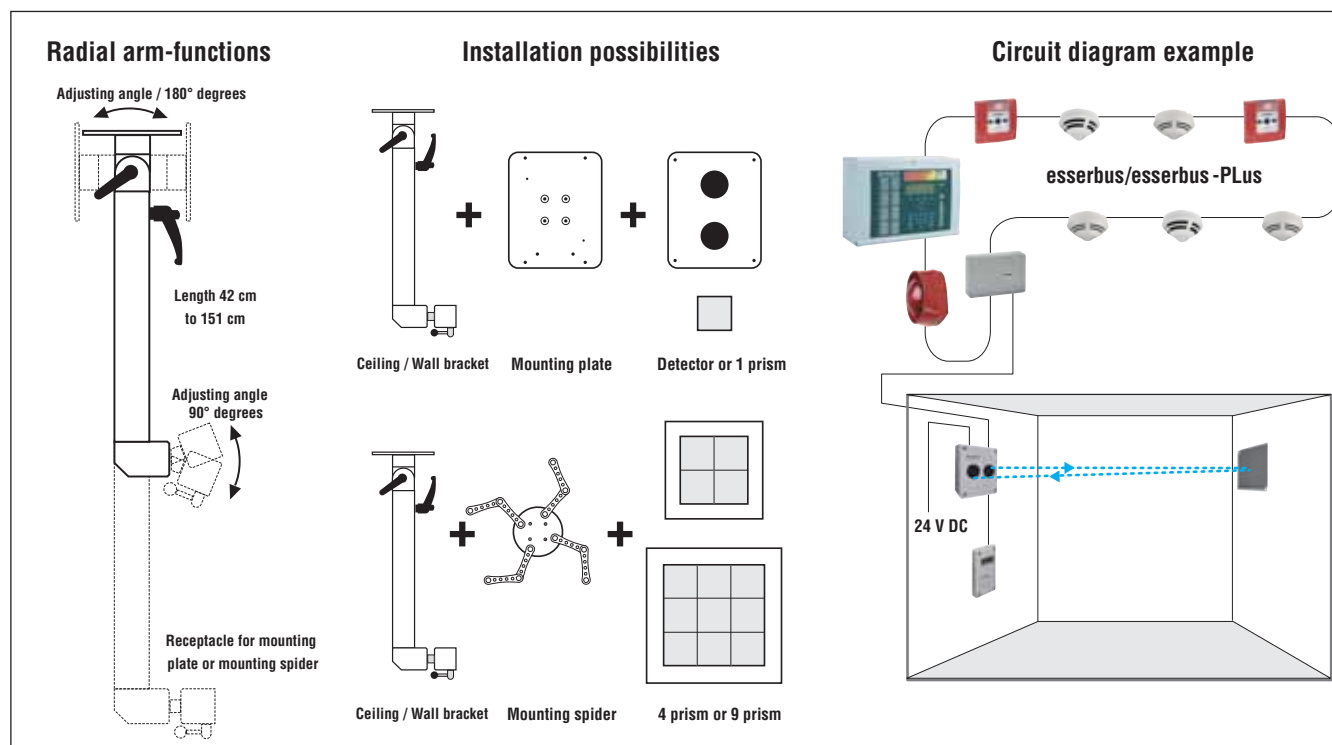
The LRMX Line Smoke Detector marks a new generation of infrared light-beam detectors in compliance with EN 54-12. Based on the light absorption principle, the sender sends a pulsated infrared beam of light to the prism reflectors which are to be mounted opposite the detector. These prisms reflect the light back to the receiver. If smoke should enter the infrared light beam and dim it to a defined degree, a signal is forwarded via the esserbus transponder to the fire alarm control panel (short: FACP). Both fire alarms as well as disturbance alarms are forwarded to the FACP.

The prominent feature of this new generation is the automatic alignment at initial start-up and the regular adjustment of the detector head via the integrated engine in the detector. This simplifies start-up considerably and thus it can be carried out more quickly. Due to the automatic self-adjustment of the detector during

even the slightest building movements, as for example due to length extensions, temperature variations, etc., the LRMX can always retain the optimal position of the initial alignment and thus is even more protected from disturbance.

Operation is user-friendly via the ground-level operating and control unit which is operated remotely from the detector. The power is supplied via the energy fed to the detector, so that in the case of an operating and control unit failure, continuing operation of the LRMX is guaranteed. The operating and control indicator has an illuminated indicator display which shows all reports and states clearly and at eye-level. With the aid of the display, a manual alignment of the detector is also possible even in the case of very difficult initiation conditions, as the horizontal and vertical coordinates of the infrared light-beam are represented in detail. The connection to the esserbus analog loop is carried out via the esserbus transponder 808613.10 in the usual manner. Resetting can also be easily carried out via this esserbus transponder: using the tools 8000 programming and service software, the relays on the transponder can be programmed as reset relays and the reset time can be set individually.

Thus the LRMX on the esserbus analog loop represents a significant advance in the world of line smoke detectors and guarantees an extremely high degree of disturbance-free and low-maintenance operation.



Example of application

## Technical Data

Operating voltage	10.2 to 40 V DC
Current consumption	3 mA (in all operating states)
IR wavelength	870 nm
Alarm relay	30 V DC / 2 A
Fault relay	30 V DC / 2 A
Range	5 m to max. 100 m (with Reflector set 761402)
Class of protection	IP 65
Dimensions (W x H x D)	Detector: 155 x 180 x 137 mm Operating unit: 120 x 185 x 62 mm Single prism: 10 x 10 x 9 mm

## Order Information

	Part No.
Linear Smoke Detector LRMX	761400
Reflector set for 761400 for ranges up to 80 m	761401
Reflector set for 761400 for ranges up to 100 m	761402
Single reflector for LRMX 761400	761403
Ceiling bracket for LRMX 761400 for distances 400 to 700 mm	761404
Ceiling bracket for LRMX 761400 for distances 700 to 1500 mm	761405
Mounting plate for ceiling bracket for detector/single reflector	761406
Mounting spider for ceiling bracket 761404 and 761405	761407

For further order data please refer to our "Fire Alarm Technology" product line catalogue.