



# Zone terminal FM

## MT/U 2.12.1

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### Typical applications

The zone terminal MT/U 2.12.1 is used for the monitored connection of sensors from security technology such as:

- Magnetic contacts
- Infrared movement detectors
- Smoke detectors
- Glass-breakage sensors

The zone terminal FM has 2 zone inputs to which several detectors can be connected. Two 12 V outputs "Walk test" and "Set/unset" enable the control of infrared movement detectors.

The device stands out due to its comprehensive and intelligent functionality.

- Alarm function with alarm memory
- Prevention of system activation if signal is present
- Zones can be disconnected via the bus
- Continuous monitoring of auxiliary voltage
- Walk test function

The design of the device enables it to be flush-mounted in a wiring box with ø 55 mm. An external 12 V DC power supply is required e.g. NT/S 12.1600.

### Benefits for the user: EIB with security technology

The connection of EIB to security technology offers the user considerable advantages.

#### Clear operation

The clear operation and display possibilities of EIB help to maintain an overview. The building thus always informs the user in clear text about the current status of the building and security functions. If necessary, the user can also be alerted via telephone.

#### Economic efficiency

New possibilities create economic benefits: detectors have multiple functions.

A movement detector can thus switch the lighting when the alarm system is not set or the heating in the room is automatically lowered when a window is opened (see diagram).

When the alarm system is set, these same detectors protect the building from intruders.

#### Functions for convenience

Central functions can also be triggered in the building when the system is set.

When leaving the building, the lighting is switched off and the room temperature is reduced if the alarm system has been set.

Switchable sockets separate critical devices from the network.

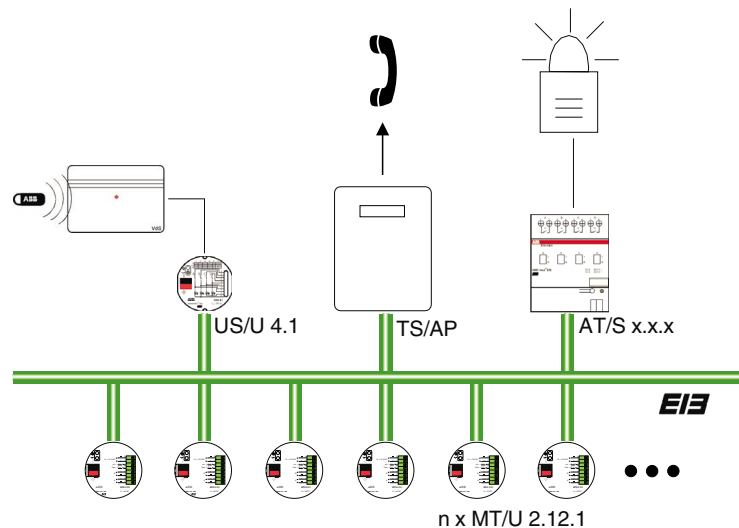
When the system is deactivated, the building creates pleasant lighting conditions for the occupants on their return.

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## Stand-alone operation

Several zone terminals MT/U 2.12.1 can form an alarm system on the EIB. This type of system guarantees safety functions without requiring any additional logic.

The system is set in the example below via a proximity arming device. An external siren and a telephone dialling device are used for issuing the alarm and for signalling.



## Operation in connection with the intruder alarm control unit L208

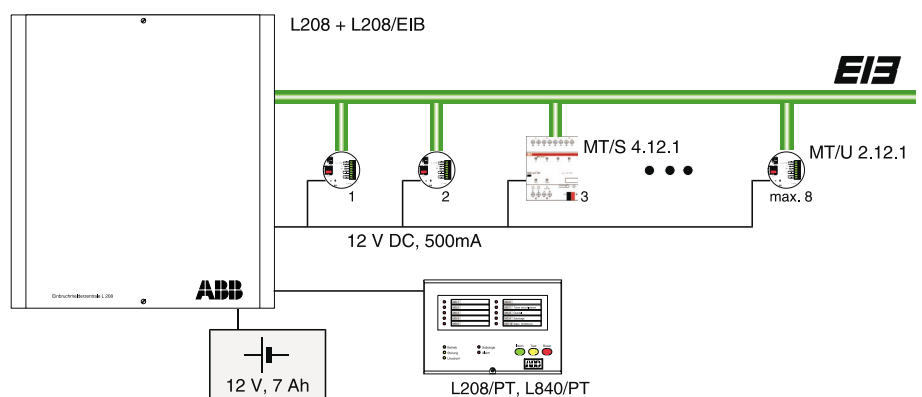
For increased safety requirements, it is possible to connect several zone terminals (MT/U 2.12.1 or MT/S 4.12.1) with an intruder alarm control unit L208 with an EIB interface.

The L208 thus forms a central alarm logic and the zone terminals make additional zones available.

A maximum of 32 detectors can be connected via the EIB.

Up to 8 zone terminals can be monitored cyclically for activity. The 12 V DC power supply is also made available by the L208.

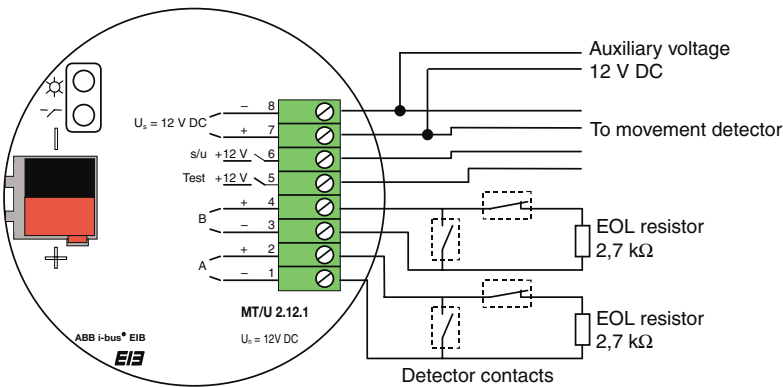
Apart from an operator keypad (L208/PT or L840/PT), the intruder alarm control unit requires a battery SAK 7.



# Zone terminal FM

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### Circuit diagram



### Technical data

Power supply:	Auxiliary voltage	12 V DC $\pm$ 2V SELV; residual ripple $\leq$ 1.0 V <sub>ss</sub> Power consumption < 35 mA, typically 25 mA
	Bus voltage	Via ABB i-bus® EIB; power consumption < 10 mA
Inputs:	2 zones	A and B primary lines, EOL resistor 2.7 kΩ Open-circuit voltage 12 V DC; Short-circuit current max. 6 mA Permitted line resistance: max. 200 Ω
Outputs:	2 control outputs	"Set/unset", "Walk test"; output impedance of 1.5 kΩ
Operating and display elements:	Red LED and push button	For entering the physical address
Connections:	Wire range	0.2 – 1 mm <sup>2</sup>
	ABB i-bus® EIB	Bus connecting terminal
Miscellaneous:	Type of protection	IP 20 according to DIN EN 60 529
	CE mark	According to EN 50090-2-2 EMC guideline and low voltage guideline
	Operating temperature range	– 5 °C to +45 °C
	Installation	Flush-mounted in wiring box with $\varnothing$ 55 mm
	Dimensions (Ø x H)	54 x 28 mm
	Weight	0.05 kg

### Selection table

Description	Ordering info.	Order no.	bbn 40 16779 EAN	Unit weight [kg]	Pack units
	Short description				
Zone terminal FM	MT/U 2.12.1	GH Q631 0060R0111	51380 7	0.05	1



The information in this leaflet is subject to technical changes.