

Zone Terminal MT/U 2.12.1

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Technical Overview

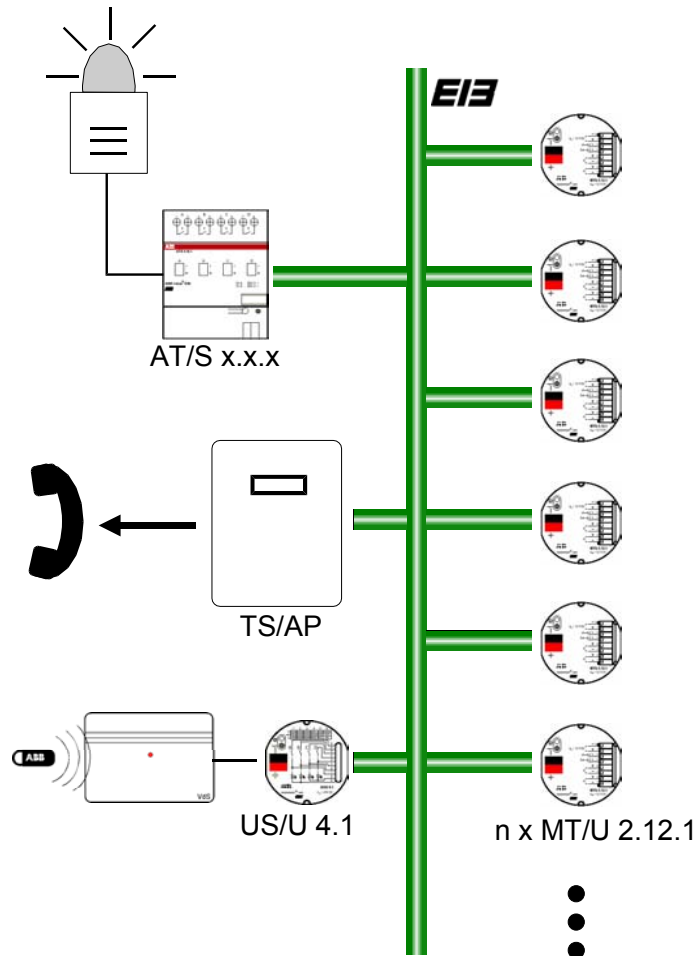


- for the decentralized connection of conventional detectors, e.g.
 - motion detectors
 - glass breakage sensors
 - magnet reed contacts
- 2 monitored lines („zones“)
- mounting in 55mm FM-wall box
- complex functionality
- 12 V voltage supply required

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Configuration I: Stand-Alone-Operation (no central logic)

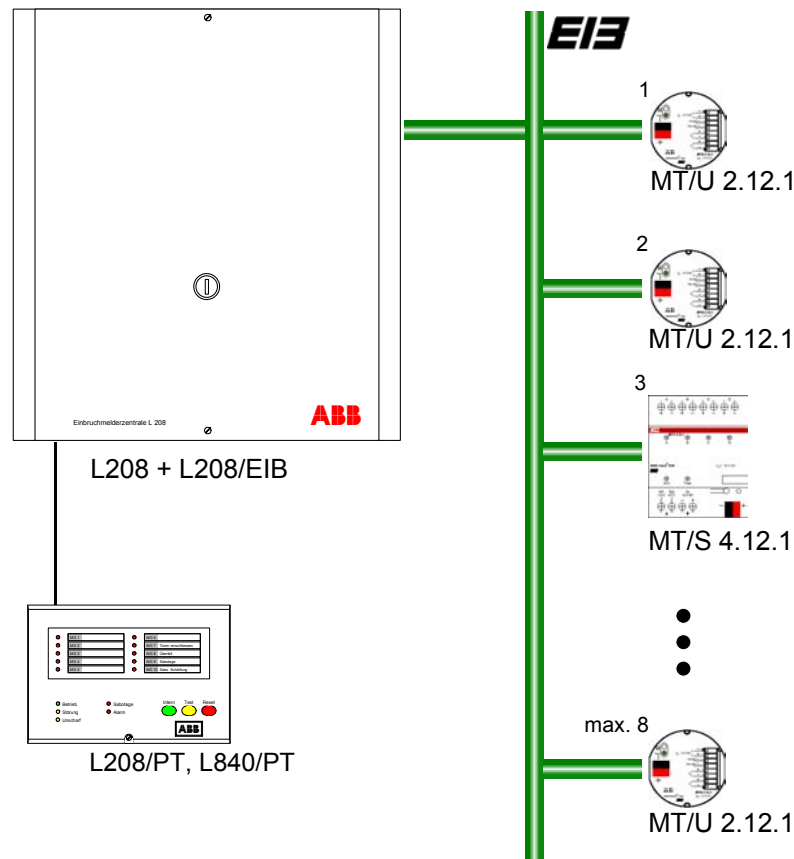


- several MT/U 2.12.1 create a linked EIB-surveillance system
- system provides basic security functions (no extra logic necessary):
 - setting/unsetting
 - alarm
 - reset
- flexible and extendable

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Configuration II: In conjunction with Alarm Panel L208

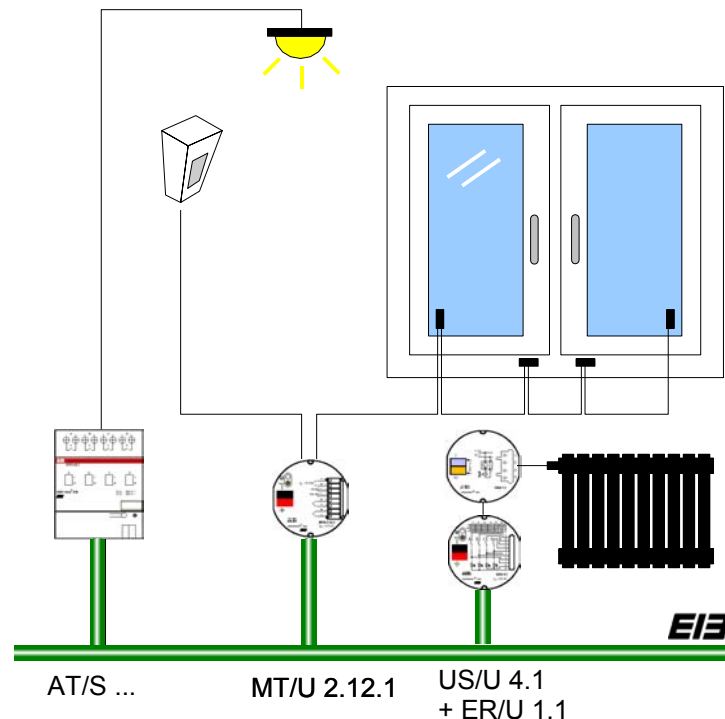


- for higher requirements in security and functionality
- central logic with a lot of security options
- alarm system extendable to up to 32 zones
- max. 8 devices can be monitored for life signals without external logic

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Application Example

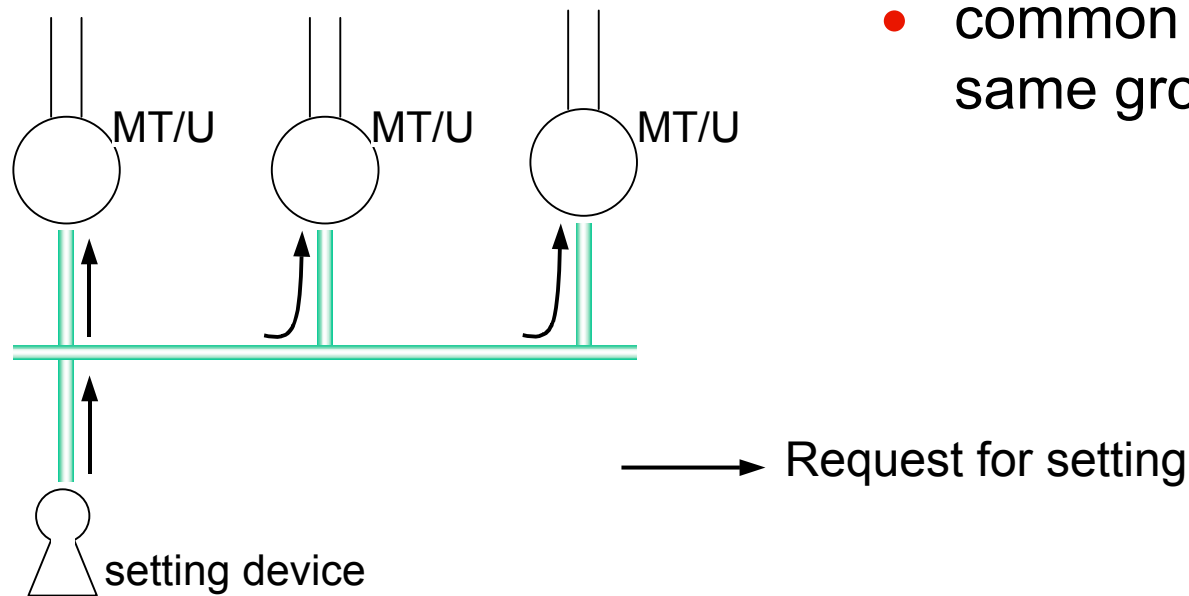


- in each room an MT/U 2.12.1 is used for the monitored connection of reed contacts and motion
- reed contacts can be used to influence the heating control
- motion detectors control the lighting
- if alarm system is set the reed contacts (or motion detectors resp.) trigger an alarm

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Functions I: Setting („arming“)



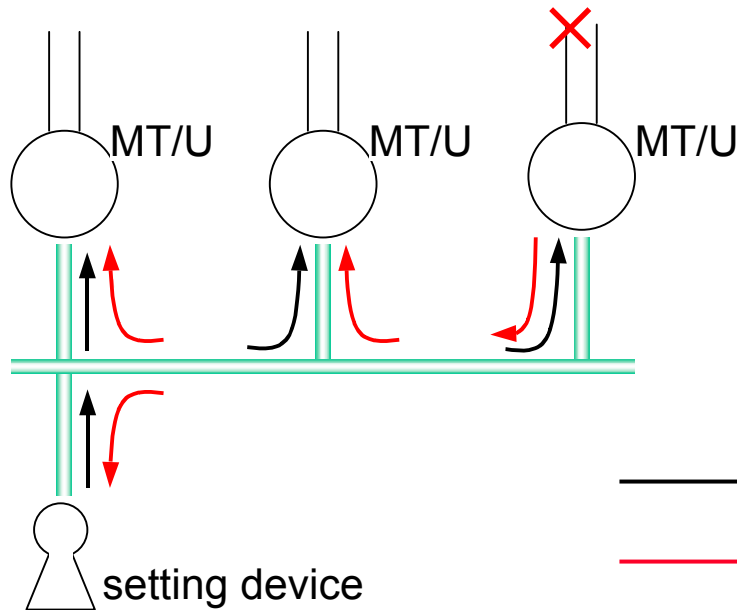
- common setting by means of the same group address

Communication object
„Set/Unset Request“

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Functions I: Setting („arming“)



- common setting by means of the same group address
- if setting is not possible the concerned device unsets automatically

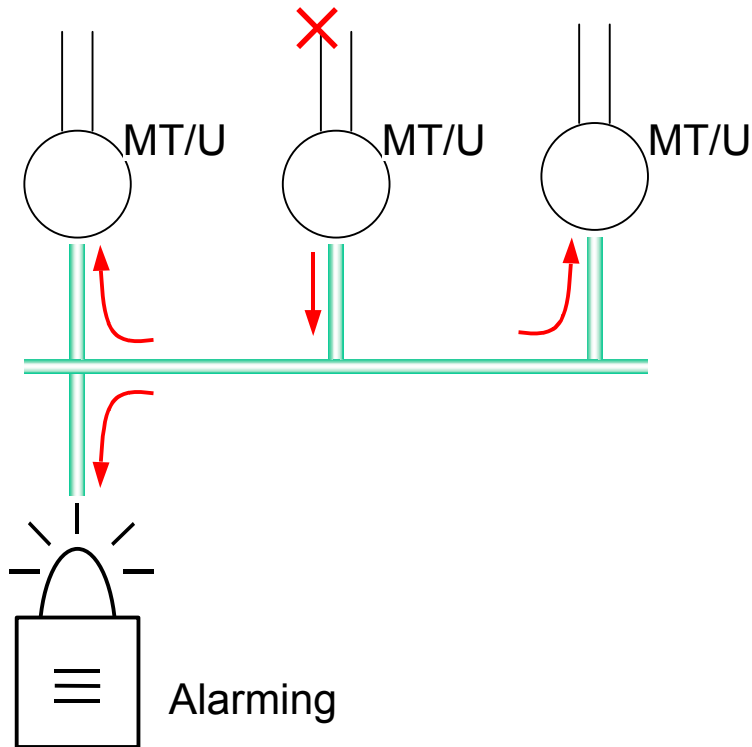
—→ Scharfschaltanforderung
—→ Request for setting

Communication object
„Set/Unset Request“

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Functions II: Alarming



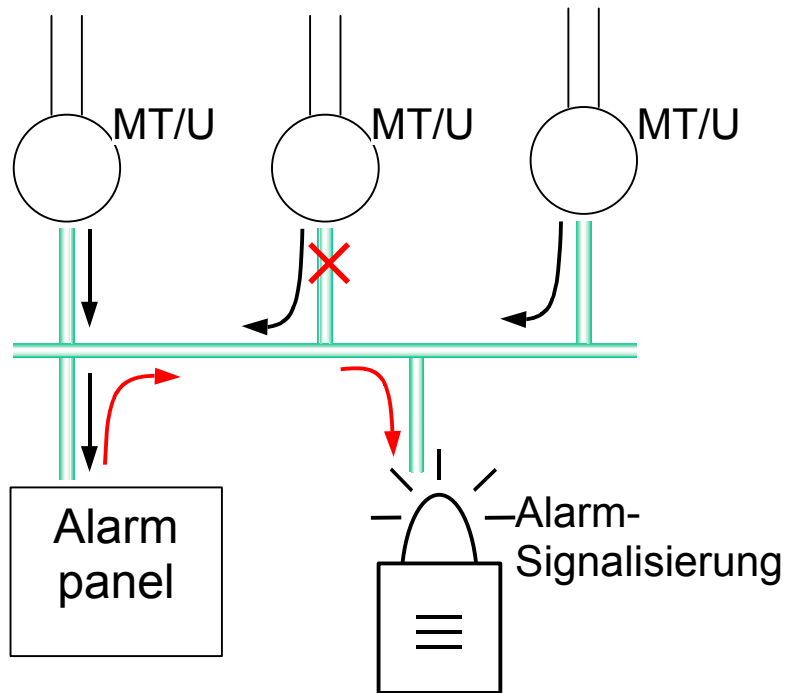
- MT/U is set
⇒ deviation in the line triggers an alarm
- in case of an alarm all MT/Us activate the alarm memory

Communication object „Alarm“

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Functions III: Monitoring of the life signal



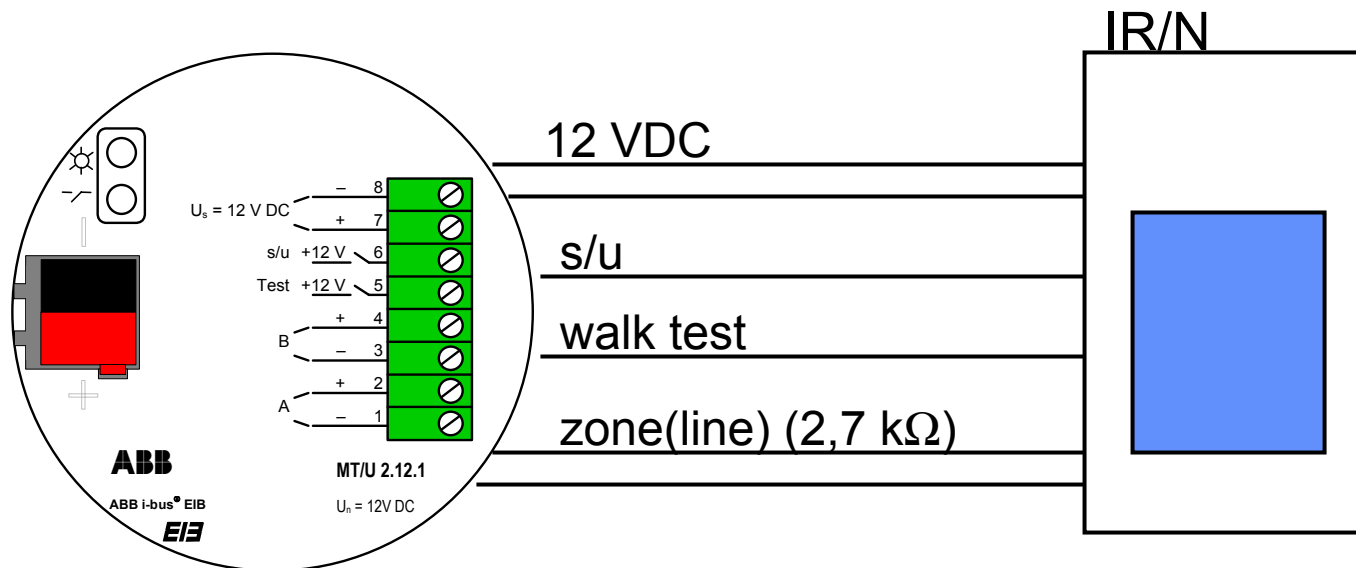
- Each MT/U transmits cyclically a life signal „Supply Voltage Fault“
- Central timer-logic (alarm panel L208) monitors the life signals and may trigger an alarm if not received for a certain time

Communication Object
„Supply Voltage Fault“

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Functions IV: Connection of an infrared detector (example)



- „walk test“ can be activated via the bus and duration can be set
- Several detectors can be connected to one zone(line)

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Advantages: MT/U 2.12.1 vs. Binary Input

- Several MT/U can be linked logically to build a surveillance system
- Monitored lines protect against manipulation (tamper) or damage by mistake
- Max. length of input-line of a Zone Terminal is greater than an input line of a normal push-button interface. The zone-lines are tensionally isolated to the EIB-line.
- The zone terminal is able to reset certain sensors (e.g. glass breakage sensors) by a short-circuit of the line
- The contact scanning voltage is compatible to security sensors.
- The control signals „Walk Test“ and „Set/Unset“ allow the connection of motion detectors and setting devices.

