

Zone Terminal MT/S 4.12.1

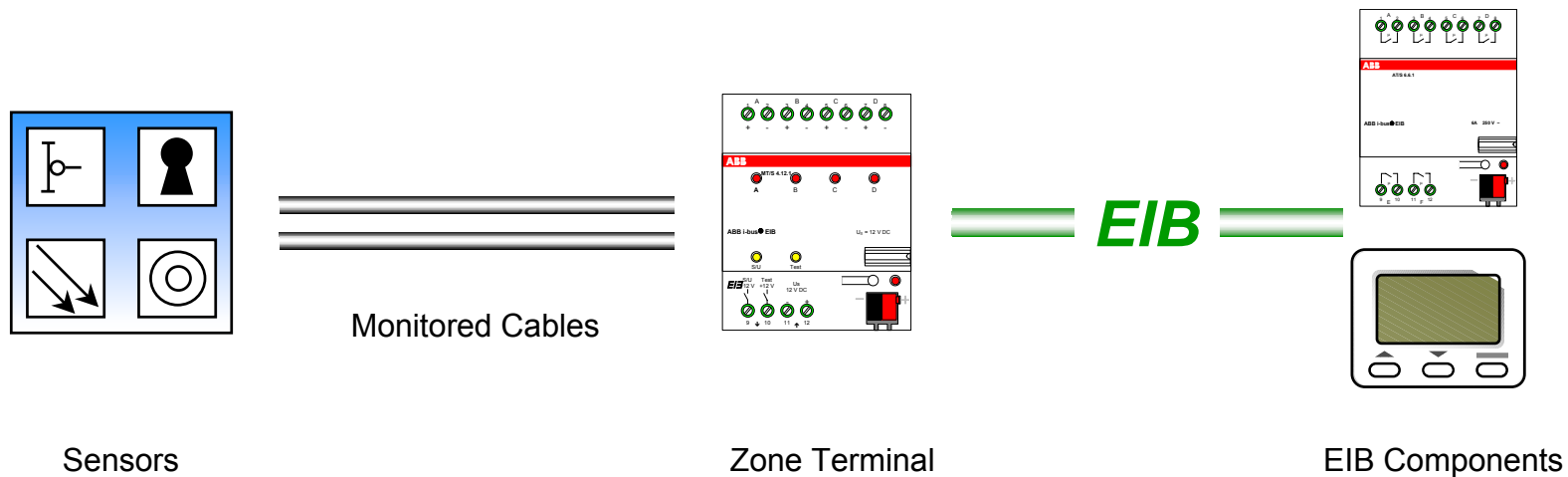


The Security and Monitoring Program from ABB STOTZ-KONTAKT

Zone Terminal MT/S 4.12.1

What is the Zone Terminal?

The Zone Terminal MT/S 4.12.1 is used for connecting passive sensors (e.g. reed contacts or glass breakage detectors) via monitored cables to the ABB i-bus® EIB and /or for the connection of other potential free contacts in applications where greater security is required.



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Application Areas :

The Zone Terminal MT/S 4.12.1 is designed to fulfill the function of a EIB security terminal for emergency, burglary und security monitoring functions in privat and small commercial buildings.



Burglary

- Window- / Door Contacts
- Motion Detectors
- Glass Breakage Detectors



Water

- Water Leakage Detectors



Fire

- Smoke Detectors



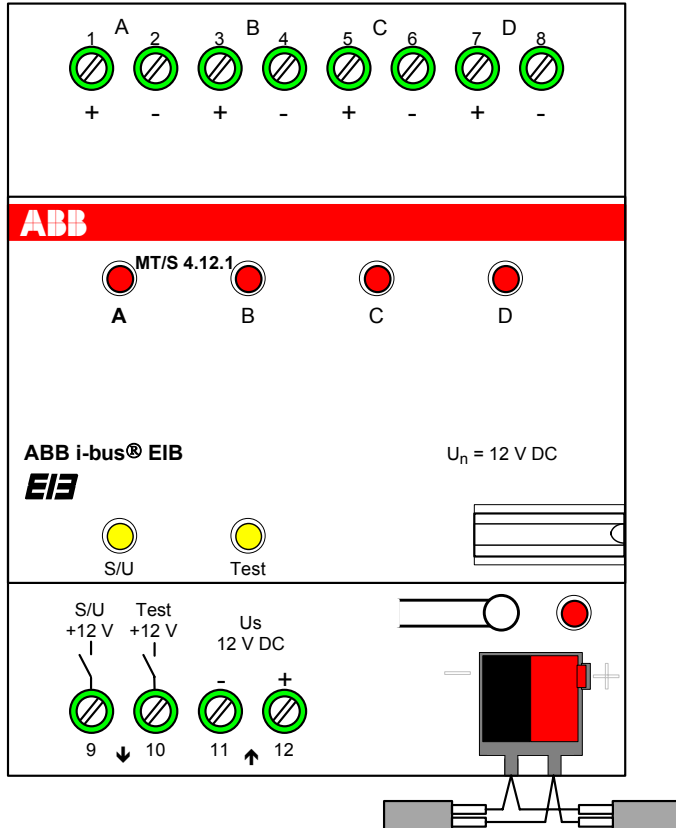
Alarm

Emergency or Panic Alarm

- Emergency Push Buttons

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Product Characteristics :



- 4 Zone Loops
- 'Walk test' und 'Set/Unset' outputs for the control of common passive infrared motion detectors
- LED status display - condition of the Zone Terminal and the outputs
- Application software for 'System' or 'Stand Alone' operation
- VdS Device registration in progress

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Technical Data I :

Inputs :

- | | |
|-----------------------|--|
| 4 Zones | - Zone Loops A, B, C and D |
| Open circuit voltage | - approx. 12 V DC |
| Short circuit current | - max. approx. 5 mA |
| Maximum cable length | - limited only by the maximum total cable impedance per loop of 200Ω |
| End of line resistor | - 2,7 kΩ |

Outputs :

- | | |
|-----------------------|-------------------------------|
| 2 Control outputs | - 'Set/Unset' und 'Walk test' |
| Open circuit voltage | - approx. 12 V DC |
| Output impedance | - 1 kΩ |
| Short circuit current | - max. approx. 12 mA |

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Technical Data II :

Power Supply :

Voltage	- 12 V DC $\pm$ 15%, SELV
Ripple	- 1,0 Vss
Current consumption	- < 50 mA, typically 20 mA (without supply to external sensors)

Control und Display Elements :

LED and push-button for entering the physical address

6 LEDs	- Status of the 4 Zones, status of the 'Set/Unset' and 'Walk test' outputs
Connection	- Screw terminals Cable cross section 0,2 - 2,5 mm ²
Installation depth / width	- 68 mm / 4 modules @ 18 mm

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Communication Objects and Parameters : 'Stand Alone'-Version

No.	Function	Type	Objet	Note
0	Telegr. Status Zone A	1 bit	Send	Zone Status
1	Telegr. Status Zone B	1 bit	Send	"
2	Telegr. Status Zone C	1 bit	Send	"
3	Telegr. Status Zone D	1 bit	Send	"
4	Set/Unset Request	1 bit	Receive	Request : set device
5	Reset Zones A ...D	1 bit	Receive	Reset the zones A, B, C, D
6	Supply Voltage Fault	1 bit	Send	Report loss of power supply
7	Set Confirmation	1 bit	Send	Device is set

Configurable Characteristics (via the ETS)

Cyclic sending : Yes/No (Supply Disturbance) Debounce time : 10 ms 130 ms

Condition of device on return of the EIB-Bus : Set/Unset; 'Walk test' On/Off

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Communication Objects und Parameters : 'System'-Version

No.	Function	Type	Object	Note
0	Configuration	1 byte	Receive/Read	
1	Status	1 byte	Send/Read	
Configuration Object			Status Object	
Bit 0*	Set/Unset		Bit 0 .. 3	Zone A ... D - Trip/OK
Bit 1	Walk test On/Off		Bit 4,5	no function
Bit 2	Reset		Bit 6	Tamper
Bit 3..7	no function		Bit 7	Power Supply Disturbance

Configurable Characteristics (via the ETS)

Debounce time : 25 ms 140 ms

* Bit 0 = LSB

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Parameter :

Edit Parameters

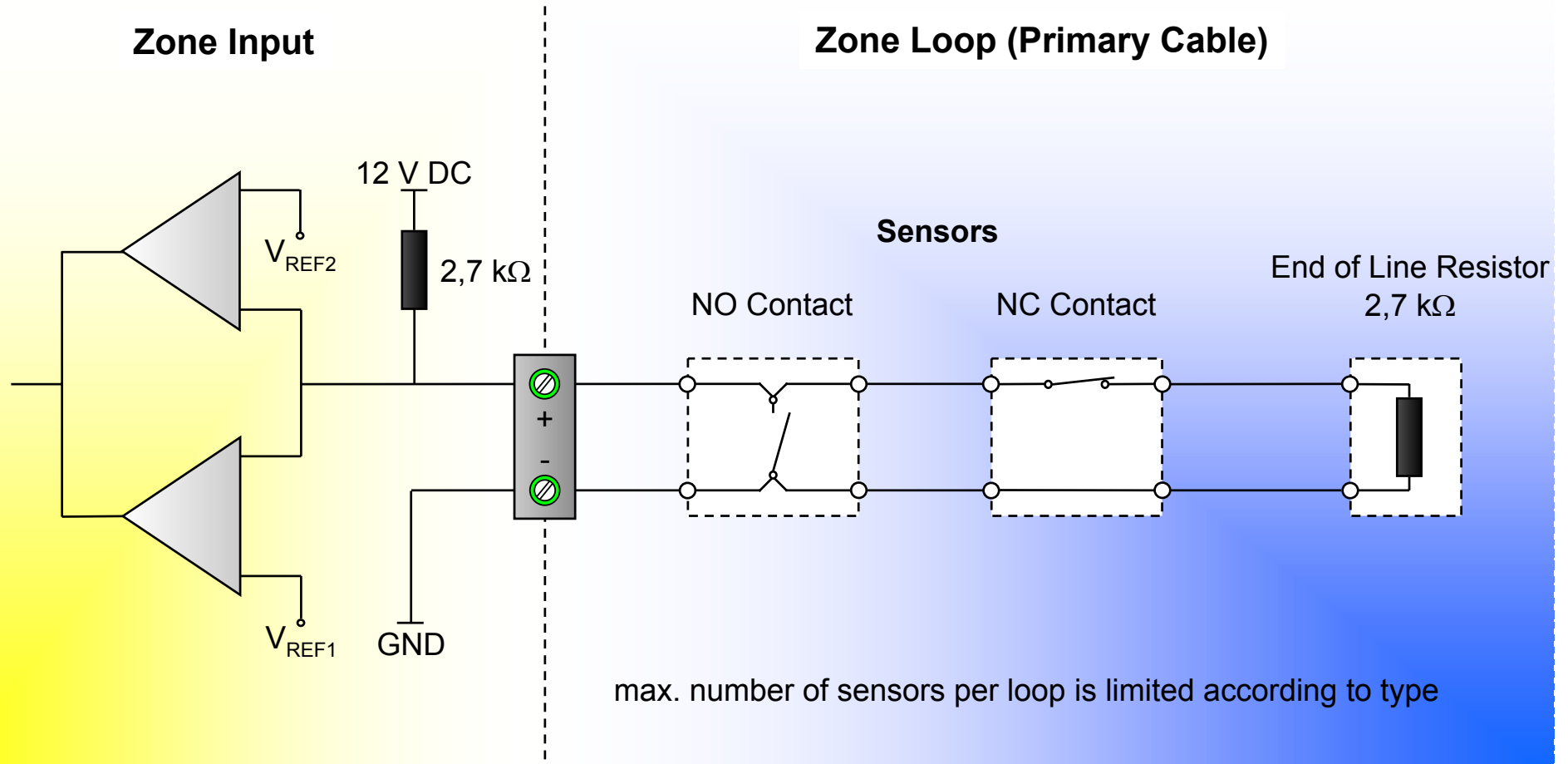
General

Debounce time Zones A...D	100ms
Cyclical sending of the fault object	yes
Time base for cyclical sending	approx. 1s
Factor for cyclical sending	10
Device status on return of bus	Device unset/walk test OFF

OK Cancel Default Info Low Access Help

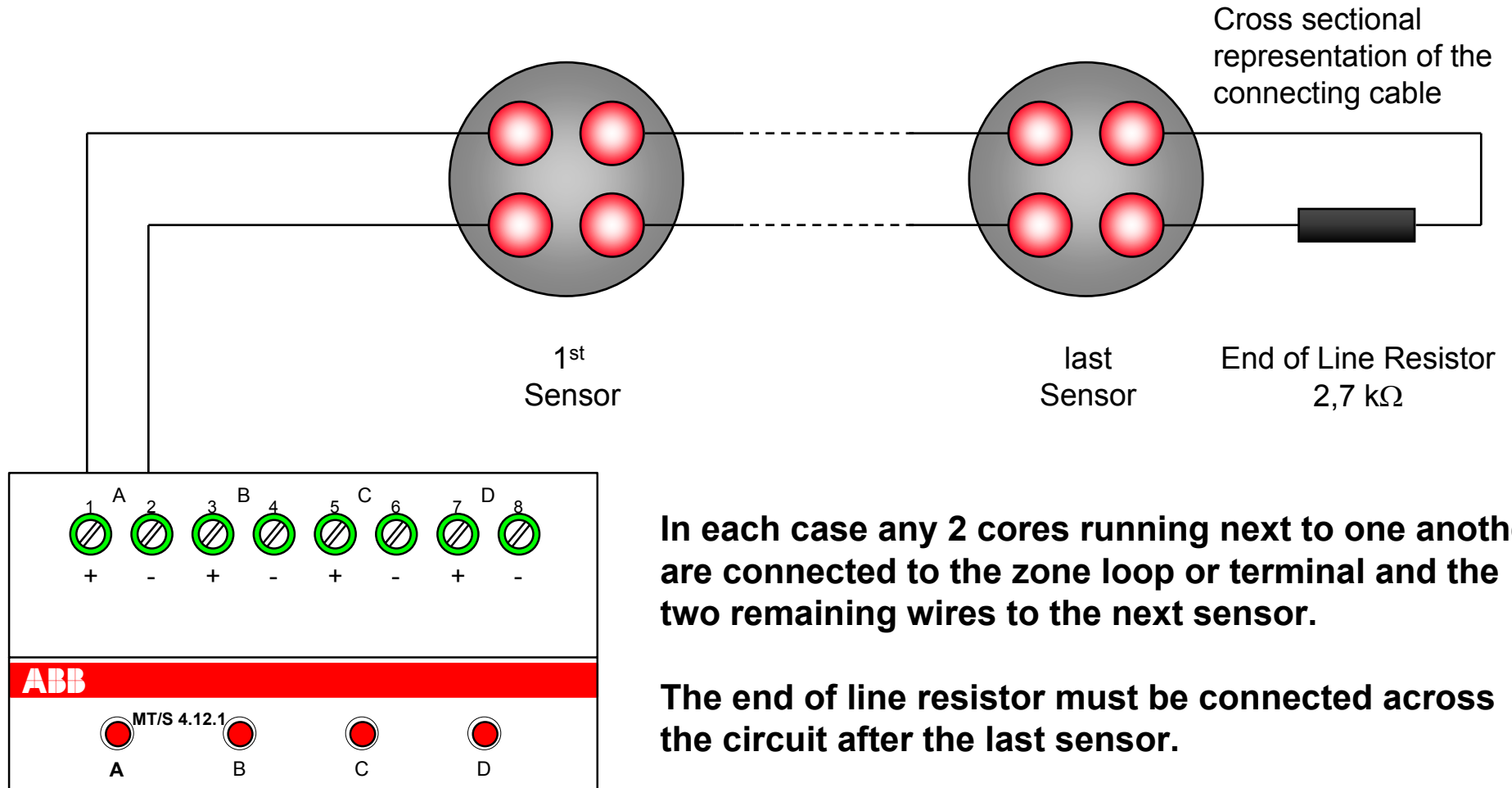
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Schematic of a Zone Loop (Primary Cable) :



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Connection of Glass Breakage Detectors and Reed Contacts :



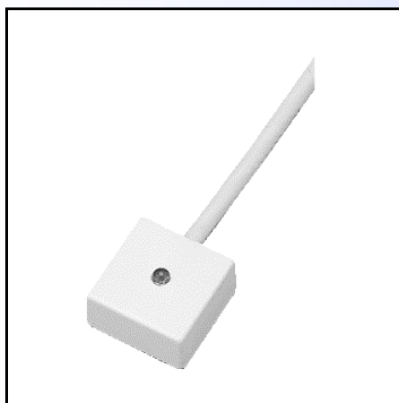
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Sensors I :

Peripheral Protection



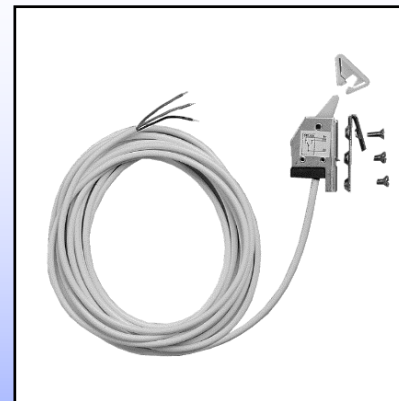
Magnetic Reedkontakt



Glass Breakage Detector

Lock Contact

Lock Monitoring



**Closure Monitoring
for Windows**

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Sensors II :

Indoor Protection

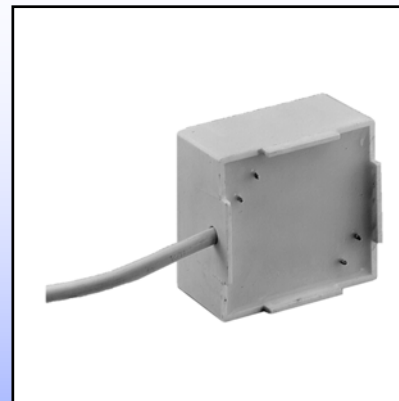


Passive Infrared Sensor



Emergency Push-Switch

Technical Sensors



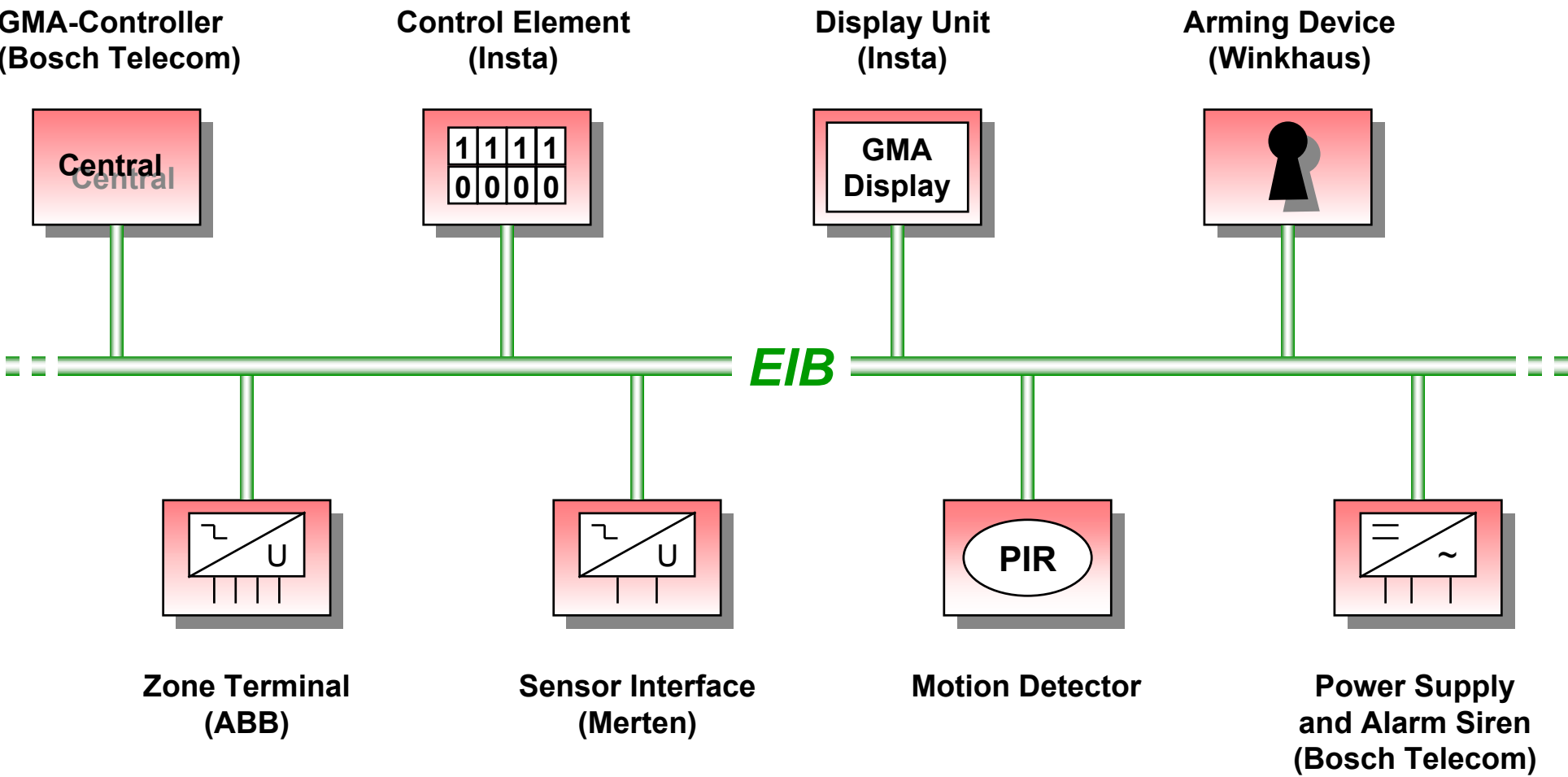
Water Leakage Detector



Optical Smoke Detector

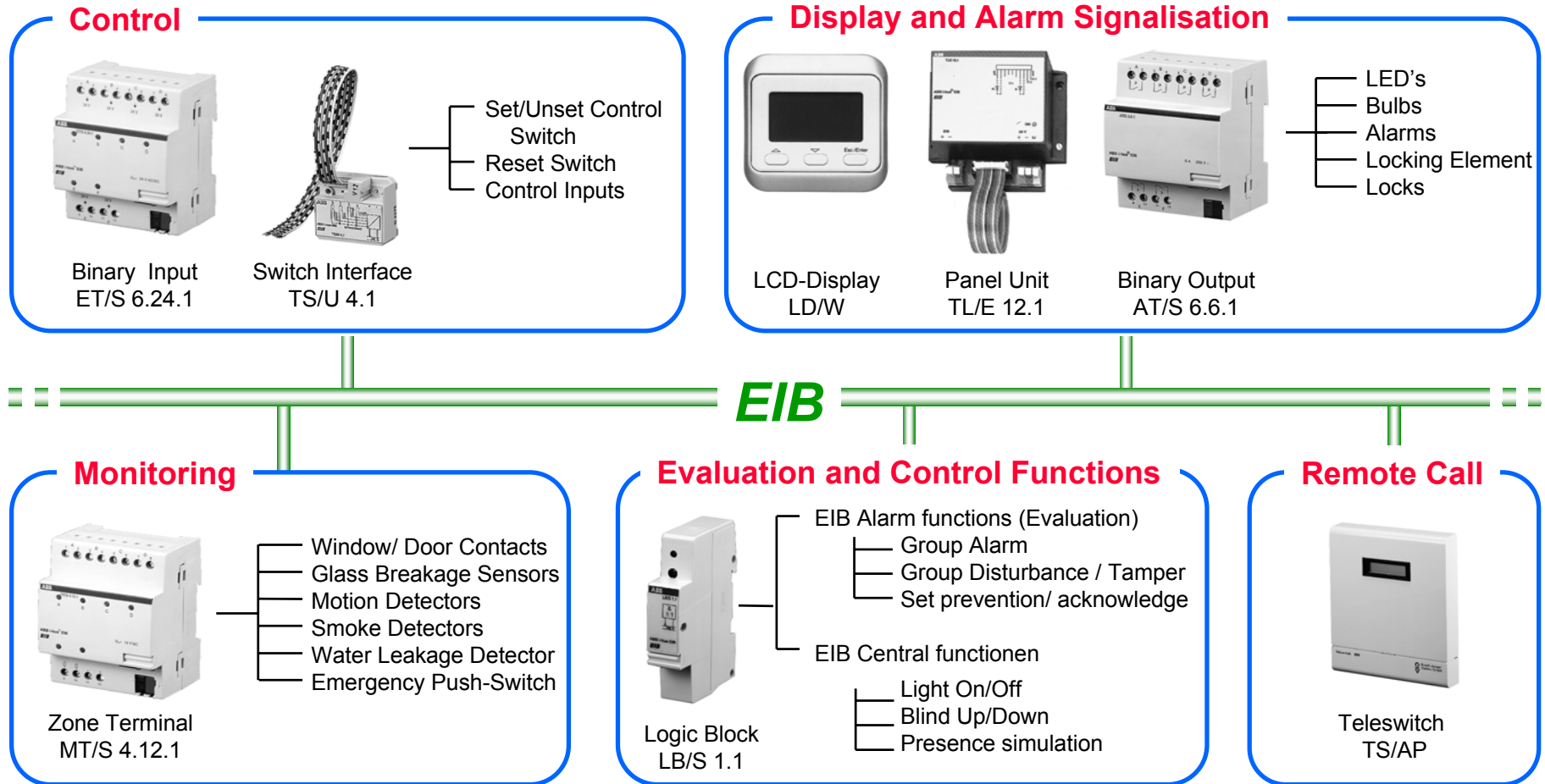
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EIB-Security Installation : (EG 3.20)



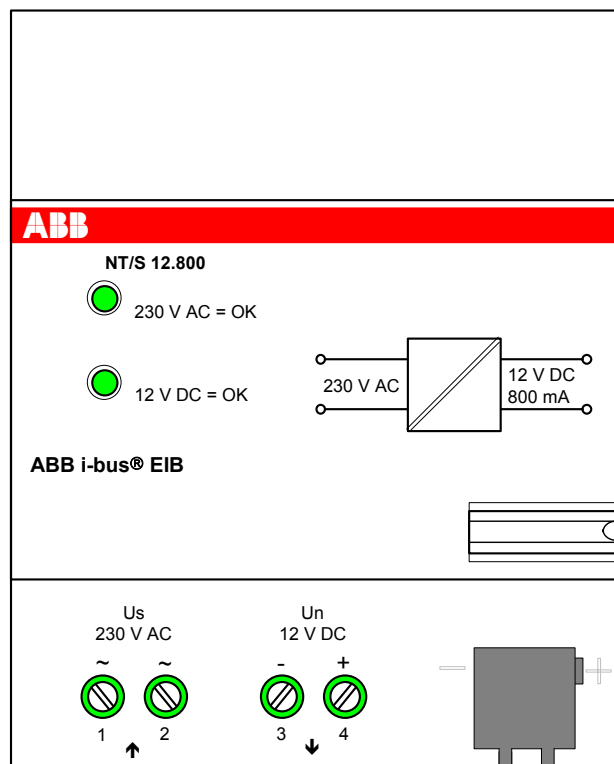
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Overview : EIB Security Program



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Netzteile : NT/S 12.800 und NT/S 24.400

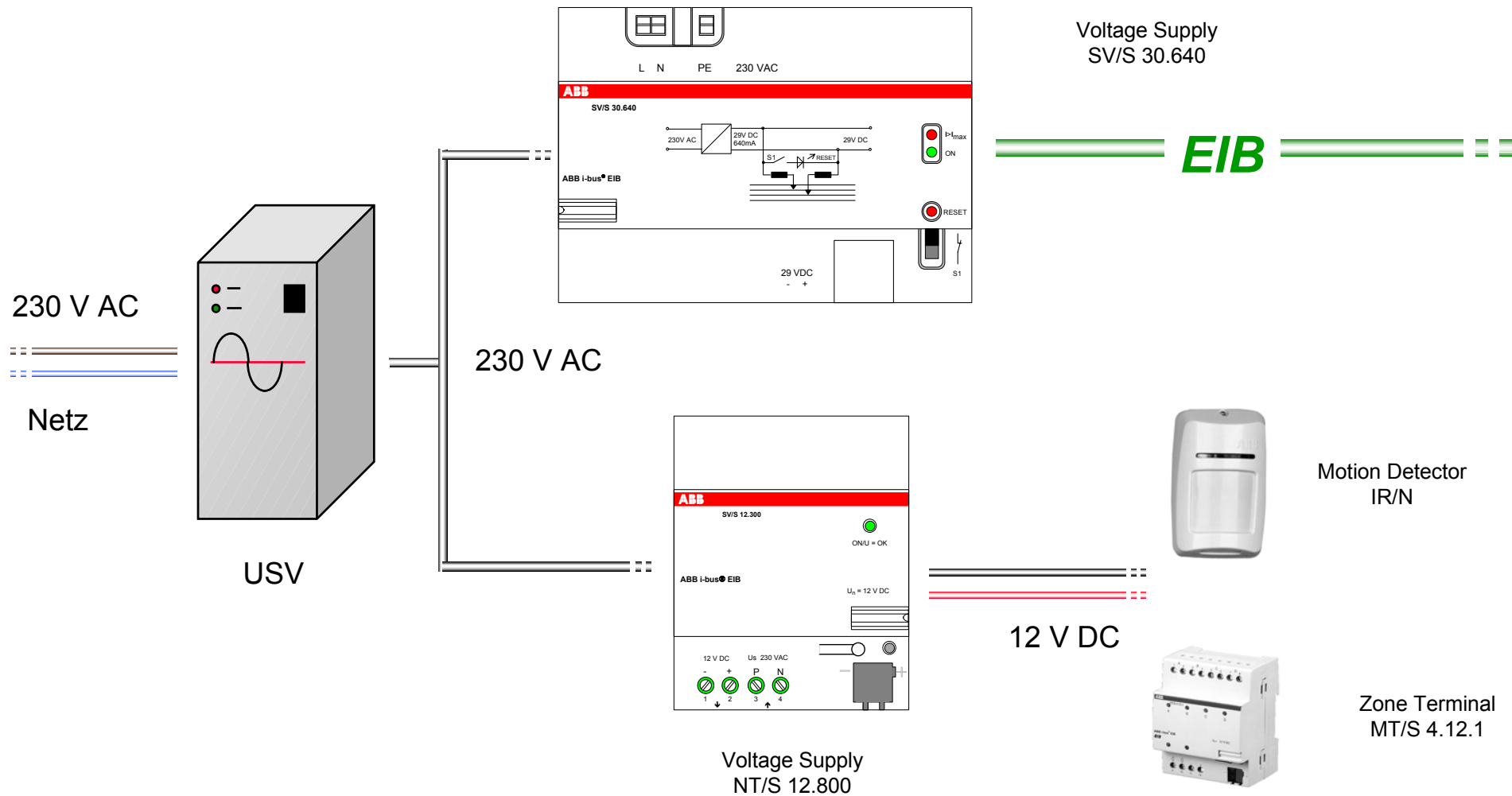


- NT/S 12.800 12 V DC 800 mA SELV
- NT/S 24.400 24 V DC 400 mA SELV
- Overload protection :
Thermal and electrical
- Output short circuit protected (continuous)
- Status LEDs for main's supply and output voltage
- Application :

Zone Terminal	MT/S 4.12.1
Binary Input	ET/S 6.24.1
Panel Unit	TT/E 12.1, TL/E 12.1.....
Universal I/O	UK/S 32.1

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Power Supply :



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