

**Central Unit (Control Unit)**  
**for Fire Detection and Extinguishing Systems**  
**Type: BMLZ 1012-A**

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**1. Technical data**

Housing dimensions (L x W x D) : 220 mm x 138 mm x 55 mm  
 (incl. connection terminals)  
 Housing material : Polystyrene (plastic)  
 Weight : approx. 0.55 kg  
 Type of housing protection : IP 20  
 Operational temperature range : -10°C to +60°C  
 Type of connection : Connection terminals for conductor cross sections max. 1.5 mm<sup>2</sup>

**2. Electrical data**

**Nominal input voltage** : 24 V DC ±20%  
**Current consumptions**  
 Nominal input current : min. 0.2 A  
 Release current : max. 4 A

**Potential-free contacts**

“Alarm”-message : 1 x potential-free NC contact (max. 30 V DC / 5 A)  
 “Shutdown 1”\* or “Alarm”\* : 1 x potential-free contact (max. 30 V DC / 5 A)  
 “Shutdown 2”\* or “Alarm”\* : 1 x potential-free contact (max. 30 V DC / 5 A)  
 “Fault”-message : 1 x potential-free NO contact (max. 30 V DC / 5 A)

**Outputs for indicators**

“Operation” : open-collector: max. 28 V DC / 0.08 A  
 “Alarm 1” even detection modules : open-collector: max. 28 V DC / 0.08 A  
 “Alarm 2” odd detection modules : open-collector: max. 28 V DC / 0.08 A  
 “Fault 2” odd detection modules : open-collector: max. 28 V DC / 0.08 A  
 “Fault 1” even detection modules : open-collector: max. 28 V DC / 0.08 A  
 “Released”\* : electronic NO contact, with internal ground potential: max. 28 V DC / 0.08 A or  
 electronic NO contact, potential-free: max. 28 VDC / 0.08 A  
 “General Alarm” : open-collector: max. 28 V DC / 0.08 A  
 “Release initiated” : open-collector: max. 28 V DC / 0.08 A

**Inputs for controls**

“Manual Release” : max. 30 V DC / 0.01 A, short-term activation for t ≥ 100 ms  
 wire breakage monitoring\*  
 “External Manual Release” : max. 30 V DC / 0.01 A, short-term activation for t ≥ 100 ms  
 wire breakage monitoring\*  
 “Reset” : max. 30 V DC / 0.01 A, short-term activation for t ≥ 100 ms  
 wire breakage monitoring\*  
 “Automatic Release OFF” : max. 30 V DC / 0.01 A, continuous activation after t ≥ 100 ms  
 wire breakage monitoring\*

**3. Connection options**

Max. 1 x Control Panel : of types: BED 1012 ..., or  
 individual controls and indicators : minimum and maximum voltage and current values must be observed  
 Max\*\* 8 x Fire Detector\* : Heat Detector of types: TF 180-..., or  
 (each wire breakage monitored) Fire Detector(s) with potential-free NO “Alarm” contact and  
 a suitable line termination resistor  
 “Alarm” switching point for passive temp.-depending fire detectors ±10C°  
 (smaller tolerances by appointment\*)  
 Max. 1 x Ext. “Manual Release” Button : of type: MR 289.2.3, or compatible  
 Max\*\* 16 x Fire Extinguishing Generator : of types: Dynameco ...-E0...  
 (each wire break-monitored)

*(\*\*): Special solutions possible with additional, limited additional numbers if necessary, by appointment only)*

**4. Labelling languages**

Standard : German/English  
 or by appointment\* : French, Italian, ...

\* **These points must be specified when ordering (s. also Version Key)!**

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Date 05/15/2017

Version 3/W.HR

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Datasheet No

4.14329.2-1

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# Central Unit (Control Unit) for Fire Detection and Extinguishing Systems Type: BMLZ 1012-A

## 5. Version Key\*

I	II	III	IV	V	VI	VII
?	??	?:?:?:?:?:?:?:?:?	?:?:?:?:?:?:?:?:?	?:?:?:?:?	?:?:?:?:?	?:?:?:?
↑	↑	↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑	↑↑↑↑↑	↑↑↑↑↑	↑↑↑↑↑
V	ZT	M1:M2:M3:M4:M5:M6:M7:M8	G1:G2:G3:G4:G5:G6:G7:G8	X2:1-2:X2:3-4:X2:7-8:X2:9-10	X1:9:X1:10:X1:11:X1:12	X5:1:X5:6-7:X5:8

I	V	Basic variant V in operating mode: Automatic Release ON
1		Each individual alarm releases all fire extinguishing generators after the predefined time lag.
2		Each alarm from a fire detector immediately releases the release circuits G5, G6, G7, and G8. Release circuits G1, G2, G3, and G4 are only released after the predefined time lag.
3		Alarm 1 on detector inputs M2, M4, M6, M8 does not lead to a release of the fire extinguishing generators. Alarm 2 on detector inputs M1, M3, M5, M7 does not lead to a release of the fire extinguishing generators. Alarm 1 and Alarm 2 release all fire extinguishing generators after the predefined time lag.
4		Each alarm from a fire detector immediately releases the release circuits G5, G6, G7, and G8. Release circuits G1, G2, G3, and G4 released immediately after actuation of an manual release push button.
5		Special variant

II	ZT	Adjustable time lag ZT
00		0 seconds
03		3 seconds
05		5 seconds
12		12 seconds
20		20 seconds
30		30 seconds

III	M1	M2	M3	M4	M5	M6	M7	M8	Configuring of the detector inputs on interfaces X6 and X7 for each module M...
A									n.c. (internally terminated)
B									potential-free NO "Alarm" contact with a line termination resistor Re=4K7
C									Heat Detector of type: Pt100 (alarm switching point = 240 °C)
D									Heat Detector of types: TF 180-... (alarm switching point = 60 °C)
E									Heat Detector of types: TF 180-... (alarm switching point = 90 °C)
F									Heat Detector of types: TF 180-... (alarm switching point = 120 °C)
G									Heat Detector of types: TF 180-... (alarm switching point = 180 °C)

IV	G1	G2	G3	G4	G5	G6	G7	G8	Configuring of the outputs on interfaces X3 and X4 for each release circuit G...
1	X	X	X	X	X	X	X	X	connection of fire extinguishing generator(s) possible

V	Configuring of the potential-free contacts on interface X2
X2:1-2	"Alarm"-message
0	NC contact
X2:2-3	"Shutoff 1"
0	combination of "Alarm" NC contact and "Fault" NO contact (quiescent current principle)
1	"Alarm" NC contact
X2:7-8	"Shutoff 2"
0	combination of "Alarm" NC contact and "Fault" NO contact (quiescent current principle)
1	"Alarm" NC contact
X2:9-10	"Fault"-message
0	NO contact (quiescent current principle)

VI	X1:9	X1:10	X1:11	X1:12	Configuring of the connections for control elements on the inputs: X1:9 - Manual Release; X1:10 - External Manual Release; X1:11 - Reset; X1:12 - Automatic Release OFF
0					without wire breakage monitoring (internally terminated with Re=4K7)
1					with wire breakage monitoring (must be externally terminated with Re=4K7)

VII	Configuring of the connections for indicator elements on outputs X5:1, X5:6-7, and X5:8
X5:1	Operation
0	alternating signal in the operating mode "Automatic Release OFF" and in a case of fault
1	constant signal (no signal) in the operating mode "Automatic Release OFF" and in a case of fault
X5:6-7	Released
0	NO contact, potential-free
1	NO contact with internal ground potential (0 V or GND).
X5:8	Alarm
0	load current principle

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