

Central Unit (Control Unit)

for Fire Detection and Extinguishing Systems

Type: BMLZ 1012

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1. Technical data

Housing dimensions (L x W x D) (incl. connection terminals)	:	220 mm x 138 mm x 55 mm
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 ²

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 change-over contact: max. 30 V DC / 5 A
"Fault"-message*	:	1 x potential-free change-over contact: max. 30 V DC / 5 A
		<u>or</u>
		1 x change-over contact for one VDS interface: max. 30 V DC

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
		<u>or</u>
		electronic NO contact, potential-free: max. 28 VDC / 0.08 A
		<u>or</u>
		electronic NO contact for one VDS interface: max. 28 V DC
"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 ..., <u>or</u>
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-..., <u>or</u>
(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 <u>by appointment</u> *)
Max. 1 x Ext. "Manual Release" Button	:	of type: MR 289.2.3, <u>or</u> 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 <u>by appointment</u> *	:	French, Italian, ...

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

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Version 4/W.HR

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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: X2: X2: X2:	X1: X1: X1: X1:	X5: X5: X5:
		1: 2: 3: 4: 5: 6: 7: 8:	1: 2: 3: 4: 5: 6: 7: 8:	1-2: 3-4: 7-8: 9-10:	9: 10: 11: 12:	1: 6-7: 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 a 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
X2:1-3 "Alarm"-message	
0	load current principle (if load current principle at X5:8)
1	quiescent current principle (if quiescent current principle at X5:8)
X2:4-6 "Fault"- message (quiescent current principle)	
0	potential-free change-over contact, coupled to the function "Automatic Release OFF"
1	change-over contact for one VDS interface, coupled to the function "Automatic Release OFF"
2	potential-free change-over contact, decoupled from the function "Automatic Release OFF"

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
2	constant signals: (ON signal) in the operating mode "Automatic Release OFF", (no signal) 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).
2	NO contact for one VDS interface
X5:8 Alarm	
0	load current principle
1	quiescent current principle

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