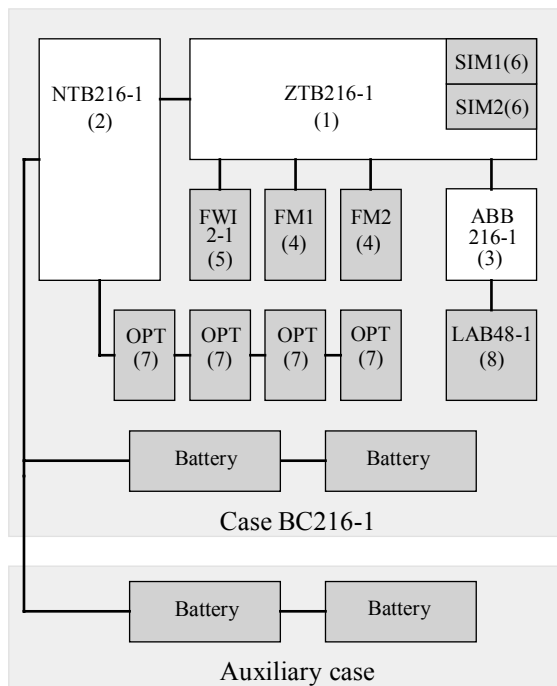


CONFIGURAZIONE GENERALE



- (1) Central processing board ZTB216-1
- (2) Power unit NTB216-1
- (3) Display and operating board ABB216-1
- (4) Function modules GIF8-1 or LIF64-1
- (5) Fire brigade interface FWI2-1 and FWZ2-1
- (6) Serial interface modules SIM216-1 oder SIM216-2
- (7) Optional space for RL58-1, RL58-2, SLM1-2, SZ58-1
- (8) LED-display field LAB48-1

ALIMENTATORE (cod. NTB216-1):

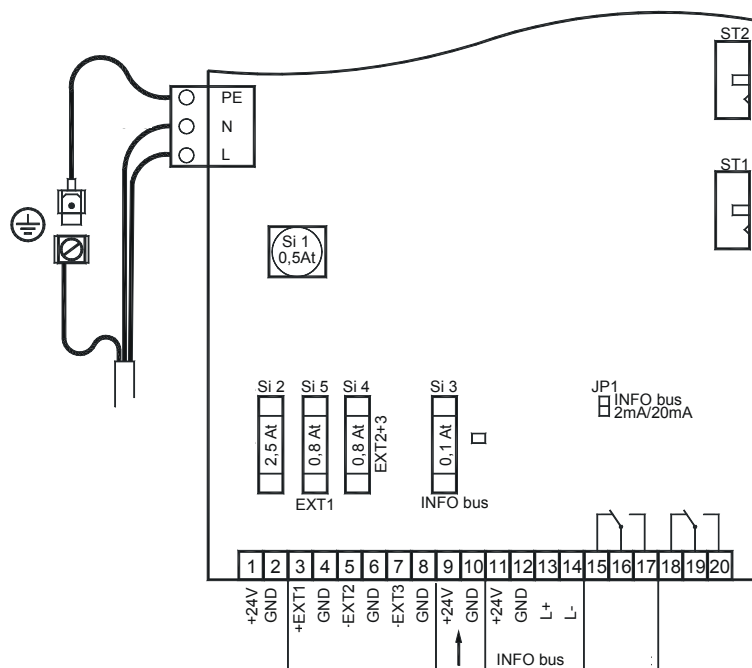
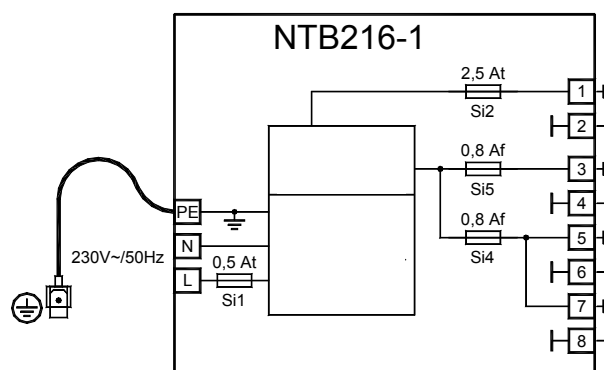
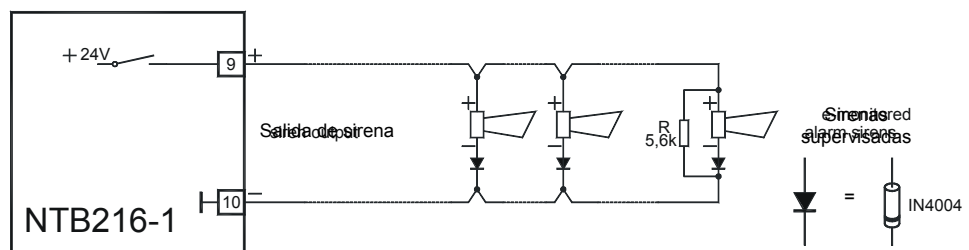


Figura 4 : Morsettiera dell'alimentatore cod. NTB216-1
USCITE DELL'ALIMENTATORE:

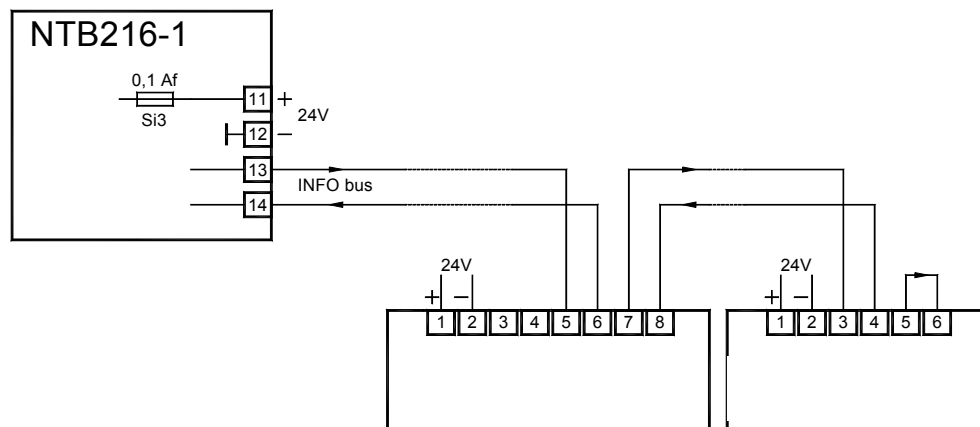


USCITA PER SIRENE D'ALLARME (uscita programmabile):

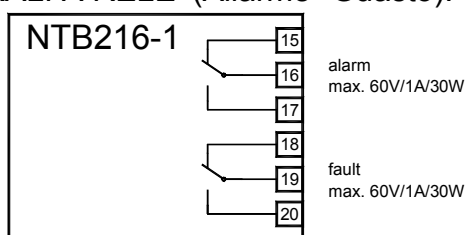


La corrente massima dell'uscita sirena è 150mA.

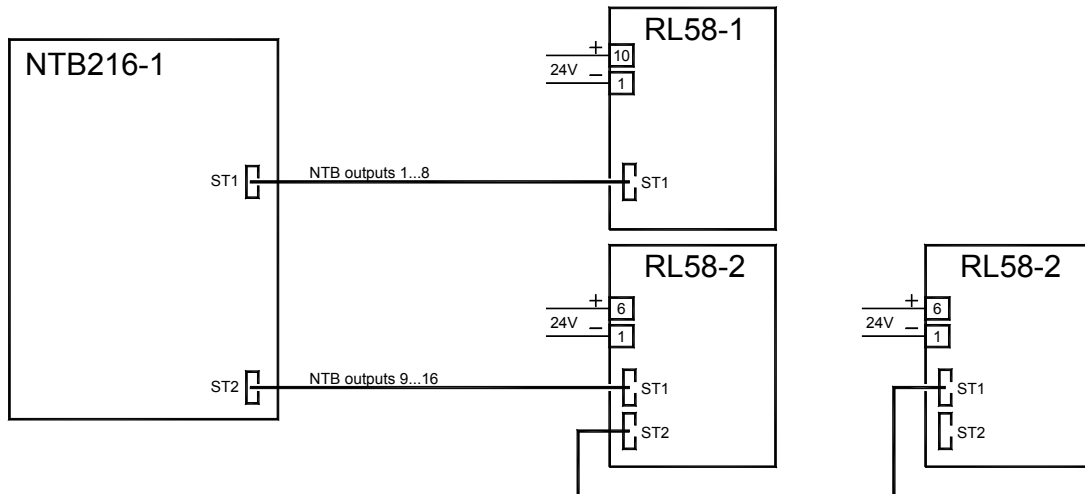
CONNESSIONE INFO-BUS:



USCITE GENERALI A RELE' (Allarme- Guasto):

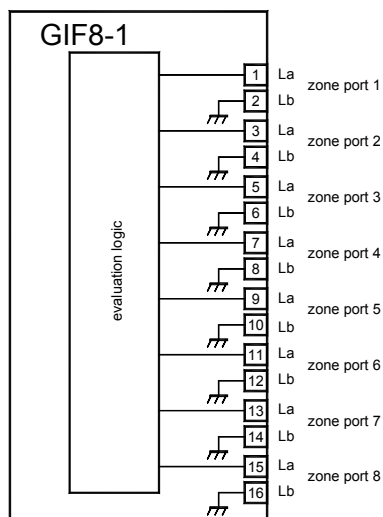


COLLEGAMENTO DELLE 16 USCITE NTB alle schede a relè RL58-1 (8 relè 1A) ed RL58-2 (4 relè 4A)



MODULI ADDIZIONALI.

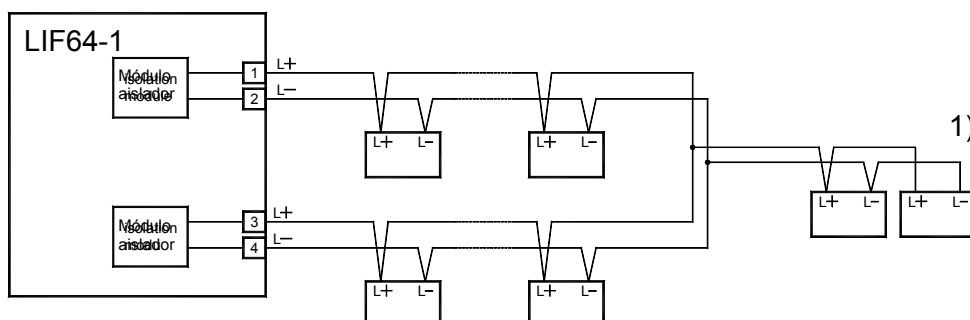
GIF8-1: modulo 8 zone convenzionali.



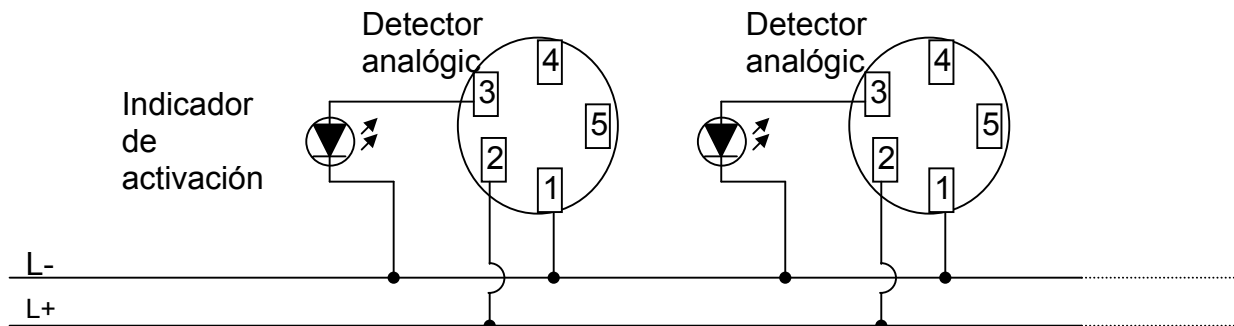
Collegamento rivelatori/pulsanti convenzionali.

SCHEDA 1 LOOP Analogico (LIF64-1) – Max 99+99 Sy-Se e 128 zone sw per loop con max. 144 zone su 2 loop.

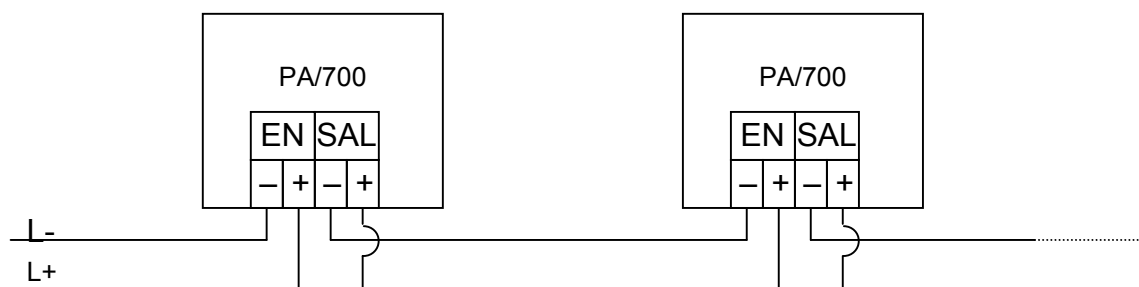
- Loop chiuso o aperto (se loop chiuso viene rilevato anche il guasto per apertura loop).
- Massima resistenza per conduttore 50ohm – 1,4 Km con 0.5mm².
-



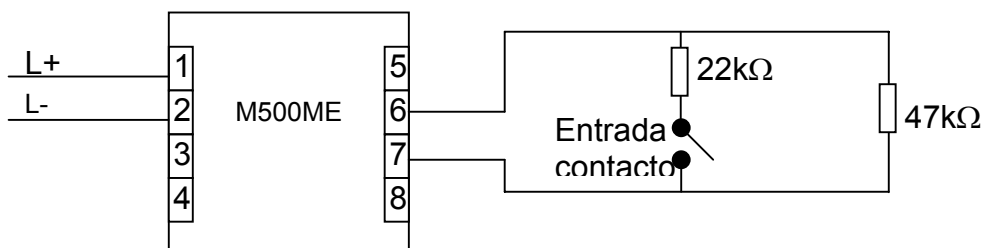
INSTALLAZIONE RIVELATORI:



INSTALLAZIONE PULSANTI (da verificare M500K):

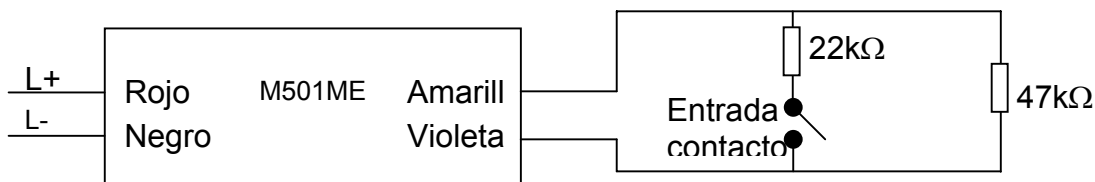


Módulo monitor di ingresso M500ME



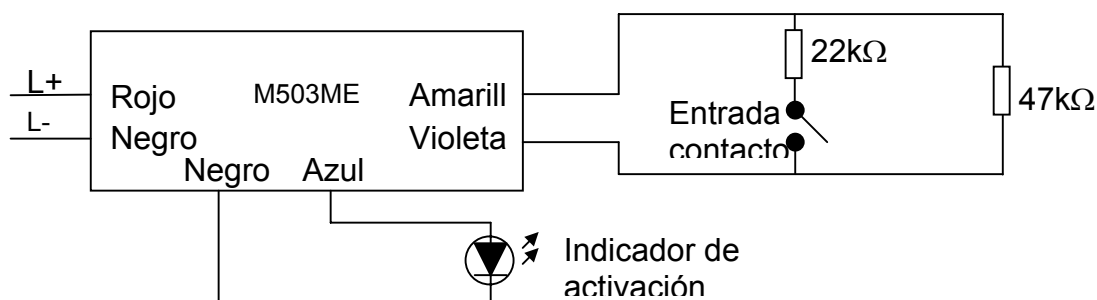
Módulo monitor miniatura M501ME

Este módulo funciona de la misma forma que el módulo M500CHE, y se conecta según los colores de los cables que incorpora:



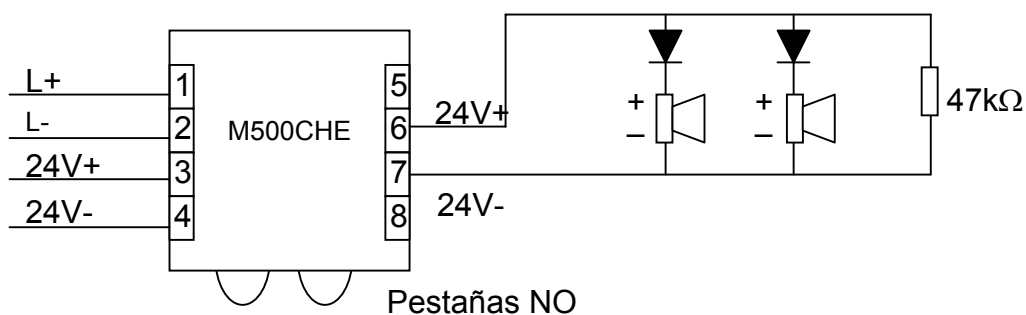
Módulo monitor miniatura M503ME

Este módulo funciona de la misma forma que el módulo M501ME pero incorpora una salida de LED adicional, y se conecta según los colores de los cables que incorpora:

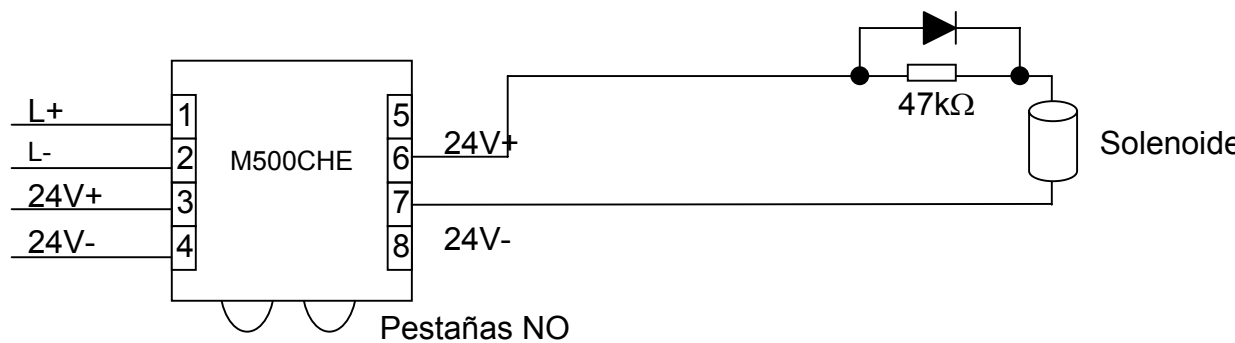


Módulo di uscita M500CHE

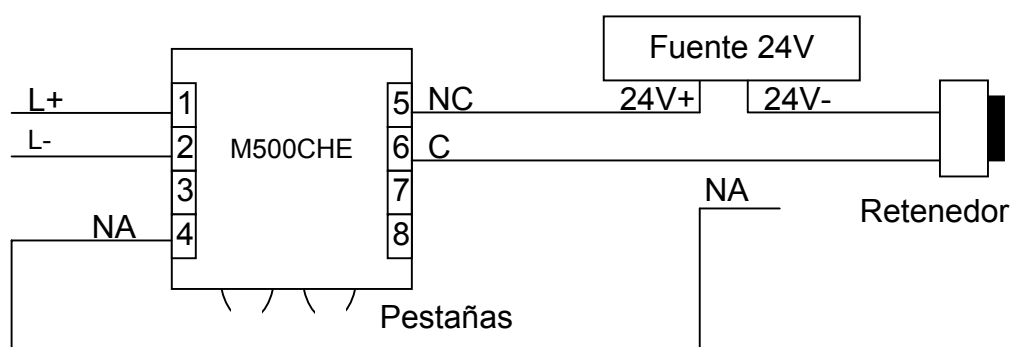
- **Caso 1:.**



- **Caso 2:**



- **Caso3**



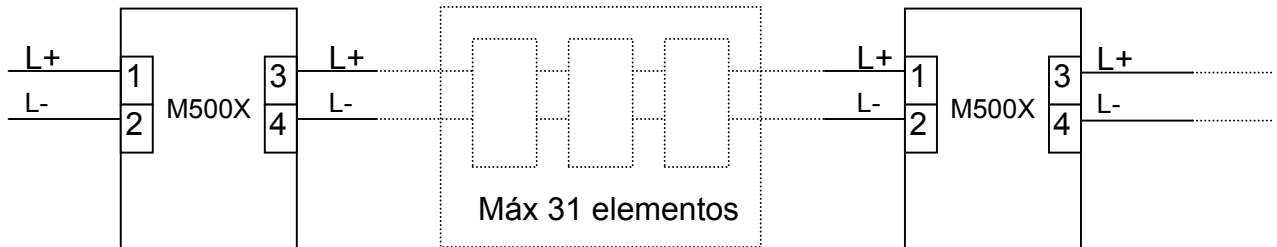
- Collegamento con rivelatori convenzionali e basi B401.



-

-
- Diagrama de conexión para el módulo EMA24EL. Se muestran dos módulos EMA24EL conectados a una fuente de 24V. Los pines 1 y 2 de cada módulo están conectados a 24V+ y 24V- respectivamente. Los pines 3 y 4 están conectados a L- y L+ respectivamente. Los pines 5, 6, 7 y 8 están conectados a una línea de alimentación común.

Módulo di cortocircuito M500X

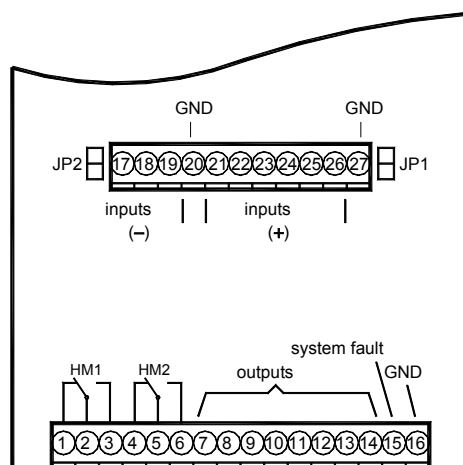


Interfacce seriali RS-232 modelli SIM216-1 e SIM216-2

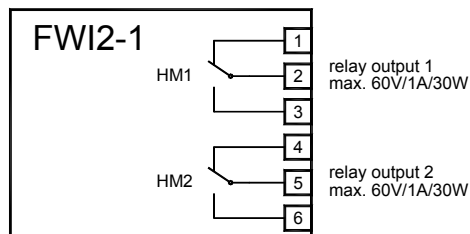
SIM216-1 (con separazione galvanica): interfaccia 232 per PC o stampante

SIM216-2 (senza separazione galvanica): modem.

1.1 Fire brigade interface FWI2-1

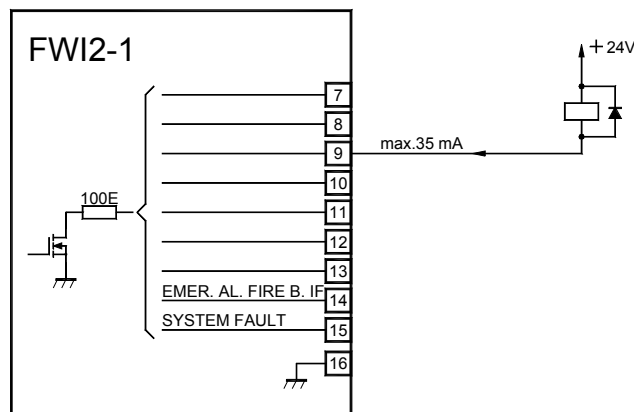


- 2 Relé programmabili liberi da tensione



1.1.1 Open collector outputs of the FWI2-1

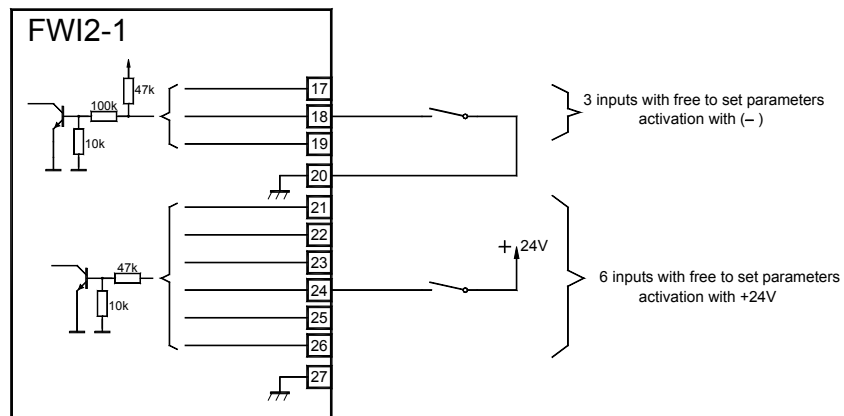
- 1 uscita O.C. guasto sistema
- 8 uscite O.C. prg.



1.1.1 Inputs of the FWI2-1

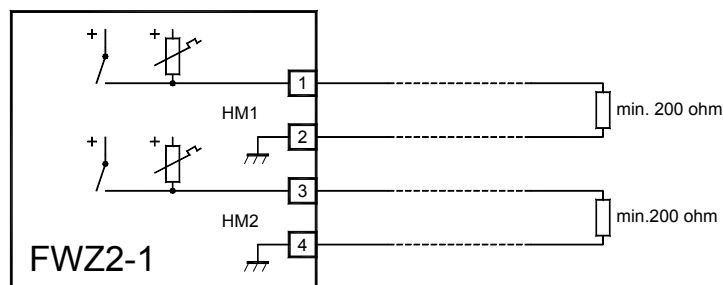
- 9 ingressi O.C.

of the fire brigade interface FWI2-1 are preferably intended for the connection of standardised



1.1 INTERFACCIA CON 2 USCITE SU LINEA CONTROLLATA FWZ2-1

L'interfaccia FWI2-1 può essere connessa con l'interfaccia FWZ2-1 per convertire le uscite a relè pulite con 2 uscite su linee controllate..



La corrente di supervisione può essere settata a 4mA (Low) – 8mA (Medium) – 12mA (High). Le linee sono protette per corti e aperture.

La corrente massima continua erogabile dalle uscite è di 150mA ciascuna.

1 Specifications

Please adhere to the absolute limit values for the load current of the panel: The total current of all devices (detectors, signalling devices, actuations, etc.) supplied by the power unit of the panel including the panel itself

must not exceed the value of 1.8A at any time.

The automatic current limitation of the power supply unit is set to this value. This value must neither be exceeded in case of an alarm. Please take into account that the fire detection system must also work without restrictions in the event of a stand-by battery failure, even peak output currents (e.g. for alarming devices) must be covered by the power unit on its own without the help of the energy stored in the stand-by battery.

1.1 Fire Detection Control Panel BC216-1/xx

Case

Installation	Wall installation, surface type
Material	Steel sheet, 1mm, powder coated
Colour	Grey-white, RAL 9002
Protection class	IP30
Dimensions w × h × d	420 × 520 × 120 (mm)

Panel power consumption from the 24V stand-by battery upon mains failure, without function modules, fault relay released

75mA

Number of function modules

2

Number of detector zones, total

Max. 144, dependent on the type of function modules used

Weight without battery

Approx. 6kg

Ambient temperature

-5°C to +50°C

Relative humidity of air

95% (not condensing)

Approvals

Austria BC216-1/A1
Germany BC216-1/Dx
Hungary BC216-1/H1

FT 14/147/1/99
VdS applied for
85/2000

1.1 Power unit NTB216-1

Mains

Mains voltage	230VAC +10/-15 %, 50Hz
Connected load	60VA
Current consumption	Max. 0.26A
Rated output voltage	Typically 28VDC
Peak output current total	Max. 1.8A

Stand-by battery

Rated voltage	24V
Final charge voltage at 25°C	27.3V
Charge current	Max. 1.7A, current limited
Capacity	Max. 34Ah
Connection	2.5A slow-blow fuse protected

Connection internal/external devices

2 × 0.8A fast blow fuse, separately protected
0.1A fast blow fuse protected for INFO bus devices etc.

Connection type

Screw terminals

Wire cross section

Max. 1.5mm²

Dimensions w × h × d

120 × 230 × 50 (mm)

Weight

500g

1.1.1 Primary alarming device

Line monitoring

By negative voltage in the normal condition, ca. -1.2V

Maximum continuous load

150mA, short-circuit proof

Maximum peak current

0.4A

1.1.2 INFO bus

Number of connected devices	8												
Interface	20mA-current loop												
Baud rate	600, 1200 (standard), 2400 baud, parameterizable												
Line resistance (total)	<table><tr><th>Number of devices</th><th>Maximum value</th></tr><tr><td>1</td><td>1000Ω</td></tr><tr><td>2</td><td>860Ω</td></tr><tr><td>4</td><td>620Ω</td></tr><tr><td>6</td><td>400Ω</td></tr><tr><td>8</td><td>160Ω</td></tr></table>	Number of devices	Maximum value	1	1000Ω	2	860Ω	4	620Ω	6	400Ω	8	160Ω
Number of devices	Maximum value												
1	1000Ω												
2	860Ω												
4	620Ω												
6	400Ω												
8	160Ω												

1.1.3 Contact outputs for alarm relay and fault relay

Contact type	1 dry change-over contact each
Contact load	60V/1A/30W

1.1.4 NTB auxiliary outputs

Number	2 × 8
Contact type	Open collector outputs
Switching current	Max. 35mA
Connection type	Flat cable connector, corresponding to the relay module
RL58-1 and RL58-2. Note: These outputs are not permitted for controlling external devices!	

1.2 Conventional detector interface GIF8-1

Power consumption at 24V	Typically 50mA
Line voltage	Typically 20V
Number of detector lines and detector zones	8
Detector addressing	0, ..., 63
Line current	Typically 3.7mA
End of line resistor	5.6kΩ
Line resistance	Max. 50Ω per core
Connection type	Screw terminals
Wire cross section	Max. 1.5mm ² (single wire)
Ambient temperature	-5°C to +50°C
Dimensions l × w × h	132 × 74 × 10 (mm)
Weight	80g

1.3 Loop interface LIF64-1

Power consumption at 24V	Typically 25mA
Number of detector zones	Max. 128
Number of detectors, modules	
ADM technology	Max. 198 elements (99 detectors + 99 modules)
ADMPRO technology	Max. 126 elements
quiescent current	Typically 300μA (per connected detector or module)
quiescent voltage	Typically 26V (ADMPRO) or 29V (ADM)
Loop line	2-core twisted, shielded or not shielded
Line resistance	Max. 50Ω per core
Line capacity	Max. 400nF
Connection type	Screw terminals
Wire cross section	Max. 2.5mm ² (single wire)
Ambient temperature	-5°C to +50°C
Dimensions l × w × h	132 × 74 × 10 (mm)
Weight	80g

1.4 Fire brigade interface FWI2-1

Power consumption at 24V	Typically 4mA (both relays released) 20mA per activated relay
Relay outputs	2
Switching capacity per contact	60V/1A/30W

Contact service life	3×10^5
Open collector outputs	9
Switching current	Max. 35mA
Switching voltage	Max. voltage for external devices
Inputs, activated with earth	3
Input voltage	Activated (NO): Max. 3V
	Not activated (NO): At least 12V
Inputs, activated with +24V	6
Input voltage	Activated (NO): At least 12V
	Not activated (NO): Max. 3V
Connection type	Screw terminals
Wire cross section	Max. 1.5mm ² (single wire)
Ambient temperature	-5°C to +50°C
Dimensions l × w × h	132 × 74 × 10 (mm)
Weight	70g

1.5 Fire brigade interface additional board FWZ2-1

Current consumption at 24V	Typically 4mA (both monitored outputs not connected) Max. 28mA (both monitored outputs connected)
Monitored outputs	2
Maximum continuous load per output	150mA, short-circuit proof
Maximum peak current per output	0.4A
Monitoring current at 24V	4 / 8 / 12mA (approximate values), jointly parameterizable for both outputs
Connection type	Screw terminals
Wire cross section	Max. 1.5mm ² (single wire)
Ambient temperature	-5°C to +50°C
Dimensions l × w × h	117 × 74 × 10 (mm)
Weight	70g

1.6 LED-display field LAB48-1

Current consumption at 24V	Typically 2mA, without active light-emitting diode 0.25mA per active light-emitting diode
Ambient temperature	-5°C to +50°C
Dimensions l × w × h	176 × 120 × 15 (mm)
Weight	60g

1.7 Serial interface module SIM216-1

Current consumption at 24V	Typically 10mA
Interface	RS232-C, galvanically isolated
Lines	RxD, TxD, CTS/DTR
Baud rate	1200, 2400, 4800, 9600, 38400, 57600 baud
Connection type	D-SUB connector, 9-pin
Ambient temperature	-5°C to +50°C
Dimensions l × w × h	70 × 45 × 20 (mm)
Weight	50g

