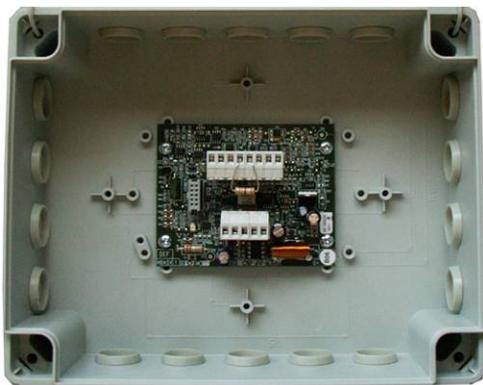# MBA95, MBA95Ex

Addressable zone interface module

- *MBA95: Addressable zone interface module*
- *MBA95Ex: Addressable zone intrinsically interface module*
- *CE certified according to CPD, EN54-17, EN54-18, EN54-13*

MBA95 and MBA95(Ex) (Master Box Addressable 95 range compatible 05 range) is an input/output module complying with the norm EN 54-18. Its aim is to manage the collective addressing of a conventional line of detectors on an Alpha or Héphaïs addressable panel.

The reference MBA95 (Ex) is the same product for intrinsically safe installations.

The devices have an **isolator circuit embedded** and are both **opto-isolated** on the output conventional line from the protocol communication line.

The product is **CE certified according to CPD** and satisfy to the norms: **EN54-17, EN54-18 and EN54-13.**

Main characteristics

- Input/output module for collective line addressing
- **Isolator integrated**
- Opto-isolated on conventional line output
- Up to 32 detectors/line on conventional line
- 10 conventional EEX points for MBA95(Ex)
- Conform with EN54-17, EN54-18, EN54-13
- **CE certified according to CPD**

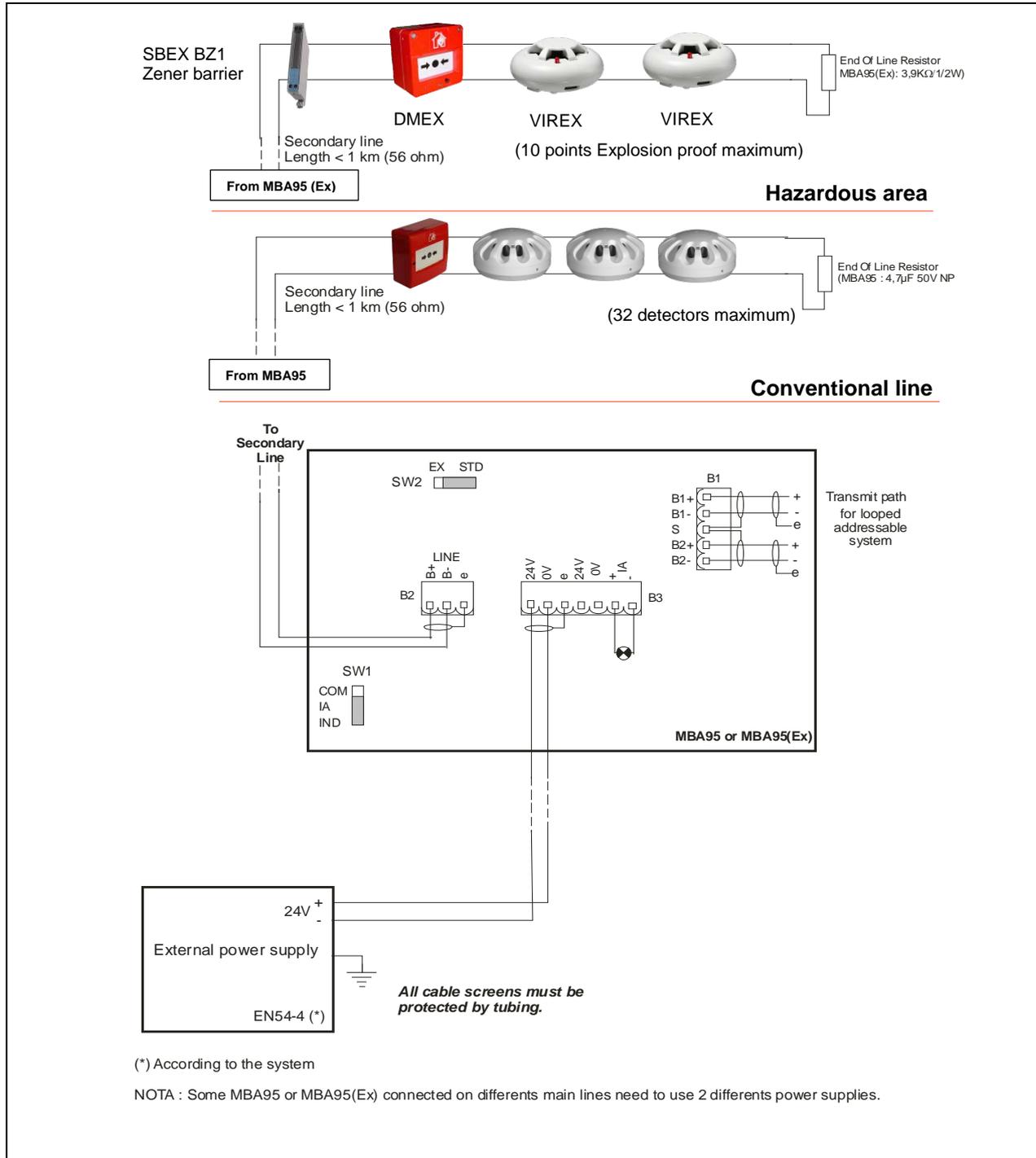| Electrical specifications	
Operating voltage	24V +/- 6Vdc
Standby consumption (on conventional line)	110 mA under 24V
Alarm consumption (2 detectors in alarm)	230 mA under 24V
Consumption on the loop	350 µA
Loop power supply	14 to 28V (nominal 24V)
Max. current	ISmax = 1A switching, ICmax = 400mA permanently with isolator closed; IImax = 100 µA with isolator open
Ohmic loss (ICC)	<400mΩ @ 400 mA with isolator closed
Opening voltage for Icc	4 Vdc ≤ Vloop ≤ 13Vdc
Mechanical specifications	
Weight	460g
Size (H x L x D)	180 x 140 x 80
IP protection	IP55
Color	Grey RAL7035
Climatic specifications	
Operating temperature	-20°C to +40°C
Operation relative humidity	≤ 93% HR
Storage temperature	+5°C to +55°C
Storage relative humidity	≤ 85% HR

MBA95, MBA95Ex connection diagram

SBEX BZ1 Zener barrier

DMEX VIREX VIREX

(10 points Explosion proof maximum)

End Of Line Resistor MBA95(Ex): 3,9KΩ/1/2W)

Secondary line Length < 1 km (56 ohm)

From MBA95 (Ex)

Hazardous area

Secondary line Length < 1 km (56 ohm)

(32 detectors maximum)

End Of Line Resistor (MBA95 : 4,7µF 50V NP)

From MBA95

Conventional line

To Secondary Line

EX STD
SW2

B1
B1+ +
B1- -
S   e
B2+ +
B2- -
     e

Transmit path for looped addressable system

LINE
B+ B- e
B2

24V 0V e 24V 0V + IA -
B3

SW1
COM
IA
IND

MBA95 or MBA95(Ex)

24V +
      -

External power supply

EN54-4 (*)

All cable screens must be protected by tubing.

(*) According to the system

NOTA : Some MBA95 or MBA95(Ex) connected on differents main lines need to use 2 differents power supplies.

REFERENCE	DESCRIPTION
MBA95	**Addressable zone interface module with backbox, for max 32 conventional points, isolator integrated, opto-isolated on the secondary line, EN54-17, EN54-18, EN54-13 CE according to CPD.**
MBA95(Ex)	**Addressable zone interface module with backbox, for max 10 conventional EEX points, isolator integrated, opto-isolated on the secondary line, EN54-17, EN54-18, EN54-13 CE according to CPD.**

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