

Fire alarm systems

Addressable short circuit isolator

4370



- Isolates a short circuit on a COM loop
- Specific fault messages for easier location of a short circuit

General

The 4370 unit is intended to be surface mounted and a plastic protection cover (with 10 cable inlets) is attached. When required, the unit can be mounted in a waterproof box (3362).

Isolates a short circuit

The addressable short circuit isolator will divide the COM loop into segments. A segment is the part of a loop between two 4370 units or between one 4370 unit and the c.i.e. In case of a short circuit on a COM loop, only the affected segment will be disabled, i.e. the number of disabled loop units is minimised. All other loop units will continue to work normally (they are not disabled). Up to eight 4370 units (no. 0-7) can be connected on each COM loop.

Specific fault messages

A short circuit or a single break (cut-off) on a loop will generate a fault and a fault message, which gives specific information, i.e. short circuit or a break, COM loop number and between which isolators it is situated.

COM loop address

The COM loop address is set with an Address setting tool 3314. The unit has an address label where the address is to be written. 3314 is also used to set the mode:

NORMAL mode: Short circuit isolator 4370 in system **EBL128** only.

2330 mode: Short circuit isolator 4370 (2370 in Win512) in system **EBL512** only.

2312 mode: Not used for 4370.

Miscellaneous

The COM loop is connected to the 4370 unit via four screw terminals. It has an input to manually open the isolator ("isolated state") and an input to manually close the isolator ("normal state"). An LED will indicate the normal and isolated state respectively.

Product applications

The 4370 unit is intended to be used in systems EBL512 and EBL128 to increase the COM loop safety. The 4370 unit is compatible with the 2370 unit and will replace it.

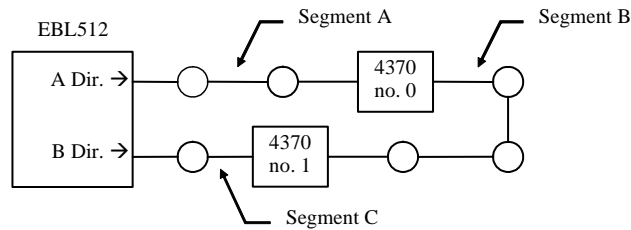
The 4370 unit is intended for indoor use and in dry premises. When required, it can be mounted in a waterproof box 3362 (IP 66/67) or DIN rail mounted with help of a DIN rail interface kit 3363.

For more information, see Planning Instructions for the system respectively.

Type numbers	
4370	Addressable short circuit isolator (incl plastic protection cover).
3362	Waterproof box (IP 66/67) (incl. 4 compression glands).
3363	DIN rail interface kit, for symmetric 35 mm DIN rail (plate, clamp & screws)



LED indications: Normal state = one blink 250ms / 3s. Isolated state = two blinks 250ms / 3s.



Two 4370 units connected to an EBL512 (or EBL128) COM loop gives three loop segments (Segment A, B and C). Circles = loop units.

Technical data	
Voltage (V DC)	
allowed	12-30
nominal	24
normal (on COM loop)	24
Current consumption, at norm. volt. on the COM loop (mA)	
quiescent	≤ 2.2
active	≤ 2.2
Ambient temperature (°C)	
operating	-10 to +50
storage	-20 to +60
Ambient humidity (% RH)	Max. 95, non condensing (if the waterproof box is not used)
Ingress Protection rating (estimated)	IP 54 (the unit itself with the plastic protection cover) IP 66/67 (with the waterproof box)
Size L x W x H (mm)	90 x 70 x 32 (the unit itself) 129 x 73 x 35 (the plastic protection cover) 175 x 125 x 75 (the waterproof box)
Weight (g)	92 (the unit itself) 40 (the plastic protection cover)
Construction / Colour	ABS / Black (the unit itself) ABS / Grey (N8, Munsell colour code) (the plastic protection cover)
Approvals	CE; EN54-5, when applicable (e.g. environmental tests)

All technical features and data are subject to changes without notice, resulting from continuous development and improvement.

Product Leaflet	Date of issue	Revision / Date of revision
MEW00407	2003-07-23	4 / 2006-08-31