

## **Fire alarm systems**

### **Analog base**

### **with isolator**

# **4313**

- Common base for the different analog detectors
- Built-in short circuit isolator
- Easy connections incl. output for external LED

### **Common base**

The analog base 4313 is connected to a COM loop. Any analog heat, smoke or multi detector of types 33xx / 430x can be plugged in the base. (See Product Leaflet for the detector type respectively.)

### **Short circuit isolator**

The analog base 4313 also has a built-in short circuit isolator, which will divide the COM loop into segments. A segment is the part of a loop between two isolators or between one isolator 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. Up to 8 isolators (4313 and the old type 4370) can be connected on each COM loop in systems EBL128 and EBL512 - up to 16 in system EBL512 G3.

4313 can be used without a detector. A supplied white cover can then be used for base protection.

### **Easy connection**

The base has screw terminals for the COM loop (in/out) and also an external indicator (LED), e.g. 2218.

### **Label holder**

An optional label holder could be mounted in the base (in the label holder recess) and is intended for a label showing "zone-address" etc. Can be read also when the detector is plugged in the base and is ceiling mounted.

### **COM loop address**

The COM loop address for the isolator is set with an Address setting tool 3314, which is also used to set the mode:

**NORMAL mode:** Short circuit isolator 4313 in system **EBL128** and **EBL512 G3**.

**2330 mode:** Short circuit isolator 4313 (2370/4370 in Win512) in system **EBL512**.

**2312 mode:** Not used for 4313.

### **Miscellaneous**

The base has an address label (A1) where the detector's and isolator's COM loop addresses can be written.

Individual fault signal is obtained if wrong type of detector (compared with the programming) is plugged in the base or if the detector is unplugged. A short circuit or a single break (cut-off) on the loop will generate a fault and a fault message, e.g. short circuit or break, COM loop number and between which isolators.

For more information regarding detector types, connections, etc. see Planning Instructions and connection diagrams for the system respectively.

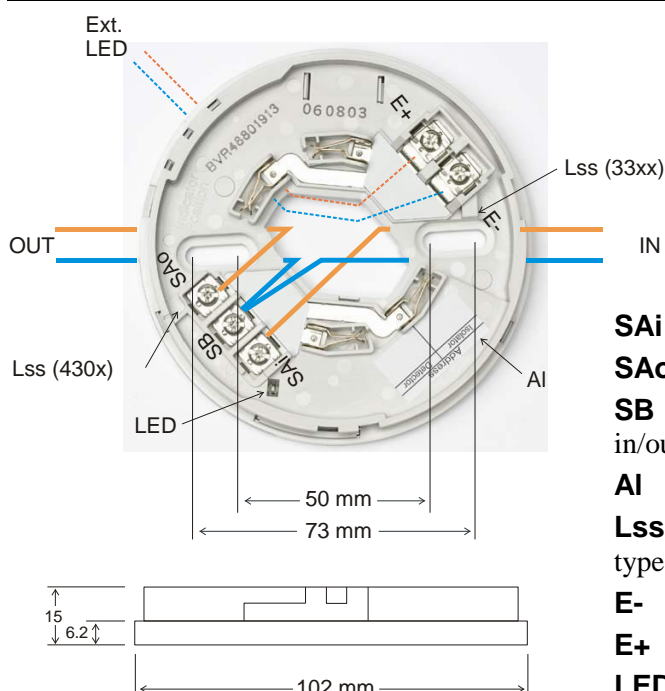
### **Product applications**

Used in the systems **EBL128**, **EBL512** and **EBL512 G3** to increase the COM loop safety.

The base is intended for indoor use and in dry premises.

### Type number

4313	Analog base with isolator (incl. a white cover)
3390	Label holder (100 holders per packet, excl. labels)
3391	Labels for 3390 (10 sheets à 132 labels)



The detector plugged in the base is connected on the SAO side.

- SAi** Terminal for COM loop (in)
- SAo** Terminal for COM loop (out)
- SB** Common terminal for COM loop in/out)
- AI** Address Label
- Lss** Locking screw stopper (for detector type 33xx and 430x respectively)
- E-** Terminal for external LED
- E+** Terminal for external LED
- LED** Isolator LED (yellow)

Isolator LED: Normal state = one blink 250ms / 3s. Isolated state = two blinks 250ms / 3s. NOTE! The LED is not visible when the detector is plugged in the base.

The base is prepared (Lss) for mechanical locking of detector with locking screw.

Terminal wire diameter 0.6 – 1.6 mm (approx. 0.3 – 2 mm<sup>2</sup>).

Analog detector types 33xx and 430x can be plugged in the base 4313. The position of the detector's built-in LED is marked in the base for correct mounting position of the base.

### Technical data

Voltage (V DC) allowed normal	12-30 24 (COM loop voltage)
Current consumption at nom. volt. from COM loop (mA) quiescent (excl. detector) active (excl. detector)	Depending on the type of detector that is plugged into the base.  ≤ 1.3 ≤ 1.3
Ext. LED terminals voltage (V) max. current output (mA)	Depending on the detector plugged in the base. Normally: 5 2
Ambient temperature (°C) Operating storage	-10 to +50 -20 to +60
Ambient humidity (% RH)	max. 95, non condensing
Ingress Protection rating (estimated)	IP54
Size Ø x H (mm)	102 x 15
Weight (g)	80
Construction / Colour	ABS / Grey (N8, Munsell colour code)
Approvals	CE 09 EC Certificate no. 0845-CPD-232.1567; EN54-17:2005

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
MEW00853	2007-01-11	3 / 2011-03-11