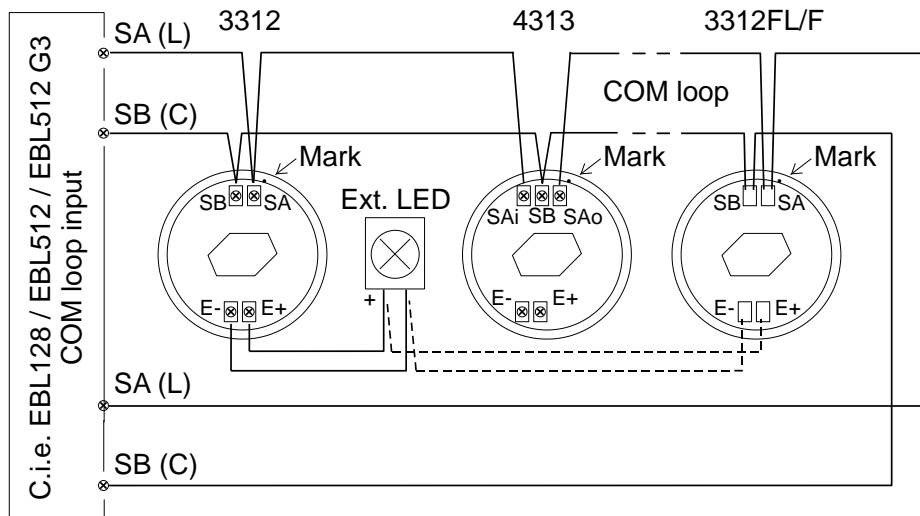


## Engineering Instructions for detectors Type 430x.



### 1. Mounting of the analog bases 3312, 3312FL, 3312F & 4313

The base is mounted in the ceiling with two screws. In case of open wiring (surface mounted base), cut the required number of knockouts for the cables, on the side of the base (before the mounting).

### 2. Wiring bases 3312, 3312FL & 3312F

3312: Use single copper wire, 0.6 - 1.2 mm in diameter. Strip its coating by 10 mm.

3312FL & 3312F: Use single copper wire, 0.9 - 1.2 mm in diameter. Strip its coating by 10 mm.

#### **Incoming wires**

3312: Put the wire into the screw terminal **SA** and **SB** respectively according to the figure. Tighten the terminal screws firmly.

3312FL & 3312F: Insert the wire into one of the fast connectors **SA** and **SB** respectively according to the figure.

#### **Outgoing wires**

3312: Connect the wires to the same **SA** and **SB** terminals as the incoming wires according to the figure.

3312FL & 3312F: Insert the wire into the other fast connector **SA** and **SB** respectively according to the figure.

#### **External indicator (LED)**

3312 & 3312FL: One external indicator (ext. LED) can be connected to the E+ and E- terminals in the base respectively according to the figure. The wires are connected like the incoming wires (screw terminals or fast connectors depending on type of base) but to the E+ and E- terminals in the base respectively.

**NOTE!** The polarity is important, i.e. connect the ext. LED + to the terminal E+ etc.

### 3. Wiring base (with isolator) 4313

Use single copper wire, 0.6 - 1.2 mm in diameter. Strip its coating by 10 mm.

#### **Incoming wires**

Put the wire into the screw terminal **SAi** and **SB** respectively according to the figure. Tighten the terminal screws firmly.

#### **Outgoing wires**

Put the wire into the screw terminal **SAo** and **SB** respectively according to the figure. Tighten the terminal screws firmly.

#### **External indicator (LED)**

One external indicator (ext. LED) can be connected to the E+ and E- terminals in the base according to the figure. The wires are connected like the incoming wires but to the E+ and E- terminals.

**NOTE!** The polarity is important, i.e. connect the ext. LED + to the terminal E+ etc.

### 4. Plugging the detector in the base

**All** terminal screws have to be tightened firmly, also not used screws.

Set the detector's COM loop address and mode by plugging the detector in the Address setting tool (3314). Write the address on the "Address label" in the detector and base respectively.

Place the detector in the base with the detector's "Mark" in the same position as the "Mark" on the base and turn the detector **clockwise**.