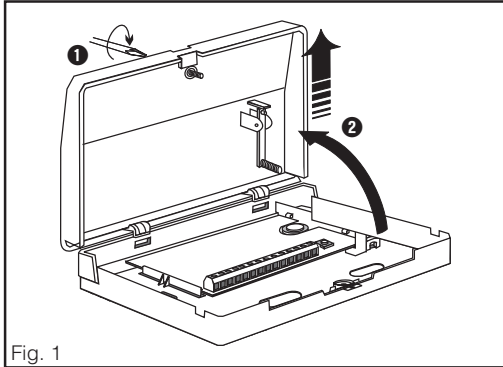# SIEMENS

SAT 12/SMT 12

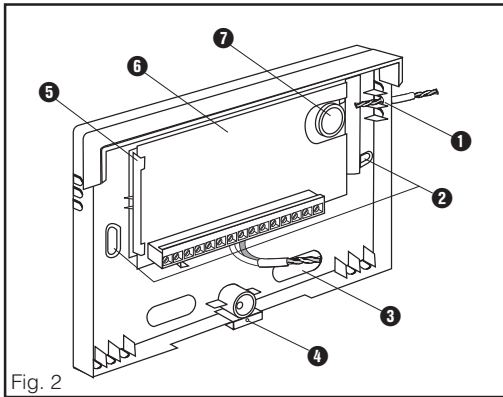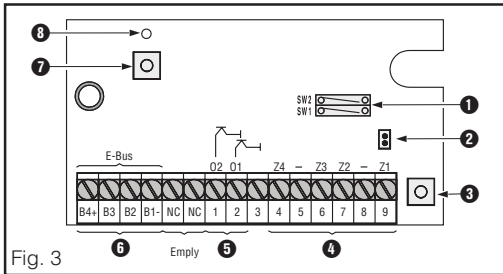# Installation instructions
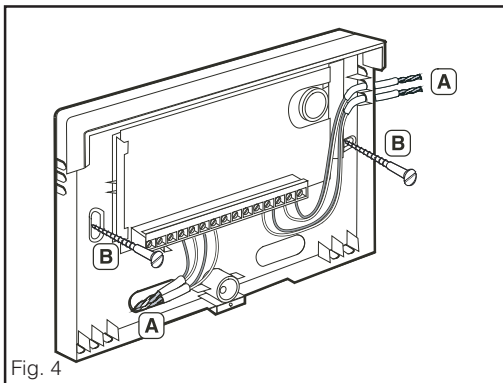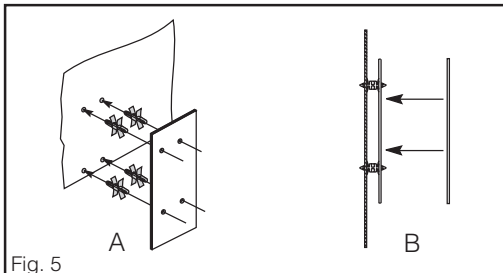

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

1. Product description

This transponder is supplied either as an SAT 12 with a housing or an SMT 12 without the housing.

2. Supply package

The SAT 12 package contains the following :
- One SAT 12 Housing (only SAT 12).
- One SMT 12 transponder (board).
- 8 terminating resistors (4.7 kOhm).
- One set (4 off) of mounting studs (only SMT 12).
- One SLT 12 language kit complete with :
  - Installation instructions.
  - One Wiring diagram.
- One cable with socket connector for external tamper contact (only SMT 12).

3. Mounting instructions

The SAT 12 and SMT 12 are designed for mounting in dry indoor rooms. They must not be exposed to either dripping or splashing water. The SMT 12 is designed for installation either in an power supply unit or a suitable flush-type box.

3.1 Open housing (fig. 1)
1 - Slacken the retaining screw ❶.
2 - Remove the cover ❷.

3.2 Product overview (fig. 2)
Housing (SAT 12 only) with the following:
- Mounting holes ❷.
- Holes or knockouts ❶,❸ for cables.
- Eye ❹ for sealing.
- Locking tab ❺ to hold the circuit board.
- SMT 12 circuit board ❻.
- Knockout ❼ for the back tamper contact screw.

3.2.1 SMT 12 circuit board (fig. 3)
- Wire jumpers ❶ for programming glass break alarm inputs.
- Plug connector ❷ for external tamper contact, connected in parallel to the tamper contact ❸.
- Tamper contact of SAT 12 housing ❸.
- Four inputs ❹.
- Two «open collector» outputs ❺.
- E-Bus connection ❻.
- Address key ❼.
- LED ❽ flash if the E-Bus communication is correct

3.3 Fit SAT 12 housing (fig. 4)
1 - If necessary, break out the knockouts for cables (**A**).
2 - Insert cables.
3 - Secure the base using 2 screws (**B**).

3.4 Fit SMT 12 circuit board
1 - Engage the mounting studs in the holes (fig. 5A).
2 - Fit circuit board (fig. 5B).

E-Bus from the central control unit   E-Bus to other accessories

Fig. 6

Input modes

1. Normally open contact

2. Normally closed contact

3. Normally closed contact monitored

4. Alarm & tamper monitored

5. Glass break sensors

6. Emergency exit

7. Fire input

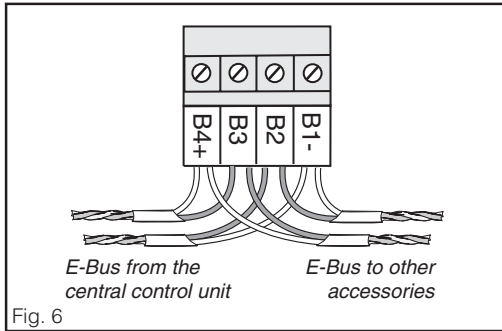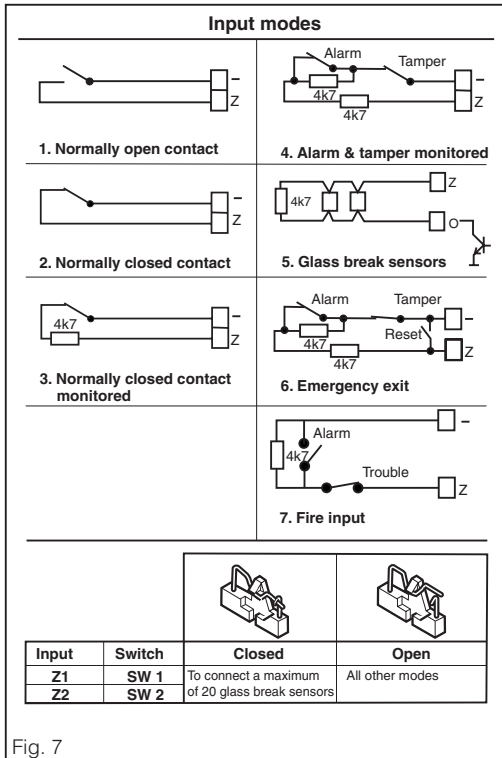| Input	Switch	Closed	Open
Z1	SW 1	To connect a maximum	All other modes
Z2	SW 2	of 20 glass break sensors	

Fig. 7

4. Wiring

The terminals are shown in fig. 3 and on the wiring diagram glued to the inside of the cover.

4.1 E-Bus (fig. 6)

Cable type 24 AWG 7 x Ø 0,2 mm is recommended. The total length of the E-Bus cable must not exceed 500 m. The E-Bus must be connected to the central control unit (B1-, B2, B3, B4+). It may be routed in parallel to other accessories. If shielded cable is used, all the shields must be connected at one point, e.g. at an NC terminal.

4.2 Tamper contact

If the SMT 12 circuit board is not fitted in the SAT 12 housing, the plug connector (fig. 3 ❷) must be connected to an external tamper contact or be short-circuited. Use the socket connector provided to connect to an external tamper contact.

4.3 Inputs (fig. 7)

All inputs can be operated in modes 1 to 4 and 6 to 7 (fig. 7). Inputs Z1 to Z2 can also be operated with glass break alarms. To do this, the relevant switches SW1 to SW2 must be closed and one terminal of each glass break sensor connected to one of outputs O1 to O2, which must be programmed for «Latching sensor reset». When wiring fire detectors, any trouble output present can be looped directly into the line. For fire detectors where the power has to be disconnected to reset the alarm, the negative can be connected via an output which is programmed as a «Latching sensor reset» output.

The emergency exit has to be wired like mode 6. A short circuit of the input will reset the corresponding output.

5. Close and seal the housing

1 - Engage the cover in the retainer at the top (fig. 1).
2 - Close the cover and tighten the retaining screw (fig. 1).
3 - Use eye (fig. 2 ❹) for sealing.

6. Technical data

Supply	from the E-Bus
Power consumption min.	6 mA
Power consumption max.	19 mA
2 outputs «open collector»	12 V, 150 mA
4 inputs	Programmable
Terminating resistors	4.7 kOhm
Operating temperature	-10° C to +55° C
Housing	ABS
Dimensions in mm, SAT 12	H 86 x W 135 x D 27
Safety class, SAT 12	IP 30
Environmental class, SAT 12	II
Weight, SAT 12	130 g
Dimensions in mm, SMT 12	H 52 x W 91 x D 20
Weight, SMT 12	50 g