

The INT-IT proximity card arm/disarm device is dedicated to operation in the intruder alarm systems. It interacts with the SATEL manufactured alarm control panels: INTEGRA (firmware version 1.07 or newer) and VERSA. It enables arming / disarming and alarm clearing in partitions by means of cards, keyfobs and other passive transponders. The device is available in a few versions (see Table 1).

Name	Modular system manufacturer	Series name
INT-IT-LI	Bticino	LIVING
INT-IT-LH		LIGHT
INT-IT-MA		MAGIC
INT-IT-SY	Gewiss	SYSTEM
INT-IT-PB		PLAYBUS

Table 1. Available device versions and systems in which they can be installed.

1. Description of the device

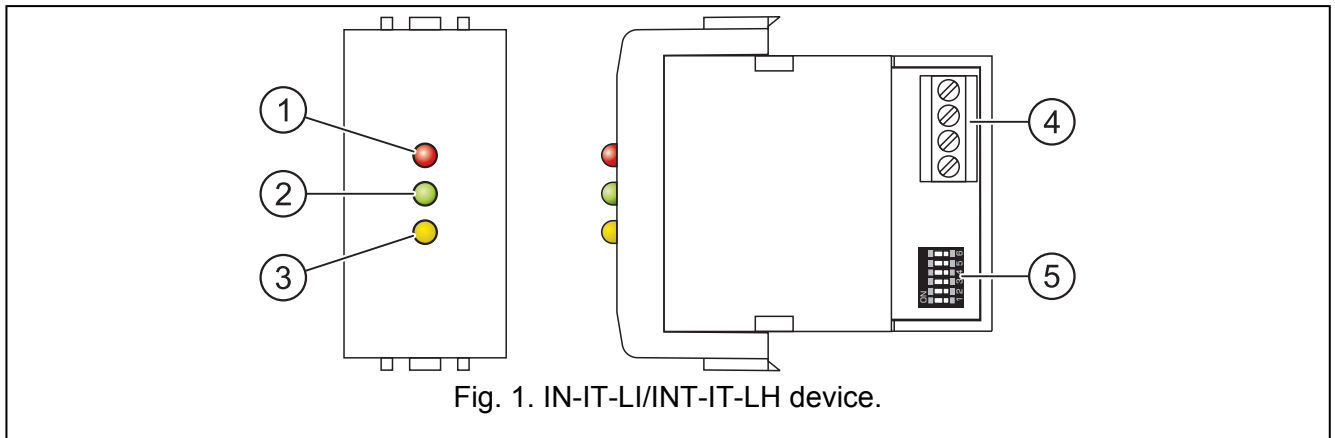


Fig. 1. IN-IT-LI/INT-IT-LH device.

Explanations for Fig. 1:

- 1 - red LED.
- 2 - green LED.
- 3 - yellow LED.
- 4 - terminals:
 - +EX** - supply input
 - DT** - data
 - CK** - clock
 - COM** - common ground
- 5 - a set of DIP-switches for determining an individual address of the module. The address must be different from those of the other modules connected to the control panel communication bus. The switches from 1 to 5 are used for address setting (the switch 6 is not used). In order to determine the device address, add up the values set at the individual switches, according to Table 2.

DIP-switch number	1	2	3	4	5
Numerical value (for switch in ON position)	1	2	4	8	16

Table 2.

Note: The address set in the module must meet requirements of the control panel:

- INTEGRA control panels: all addresses from the 0 to 31 range are allowed;
- VERSA control panels: addresses from the 16 (10h) to 21 (15h) range are allowed.

2. Installation and startup



All connections should only be made when power supply of the alarm system is disconnected.

The distance between two devices fitted with the proximity card reader must exceed 50 cm. Connect the INT-IT device to the control panel expander bus, according to the rules described in the installer manual for the particular control panel. After finishing the installation work and starting the alarm system, run the identification function in the control panel. Only after identification, the device will be properly supported.

3. Use

Using the proximity card you can:

- arm the system in global mode;
- arm the system in mode A or B (the system behavior in case of arming in mode A or B is defined by the installer – see section PROGRAMMING).
- disarm the system;
- clear alarm in the system.

The installer will determine the partitions to be controlled by the device. The user can only control the partitions which he is authorized to access.

Note: The INTEGRA control panel does not allow to toggle between the armed mode in partitions. The partition must be disarmed first, and only then can be armed in another mode.

3.1 Arming the system in global mode

1. Present the card to the device and hold up until the red LED comes on.
2. Remove the card from the device.

3.2 Arming the system in mode A

1. Present the card to the device and hold up until the green LED comes on.
2. Remove the card from the device.

3.3 Arming the system in mode B

1. Present the card to the device and hold up until the yellow LED comes on.
2. Remove the card from the device.

3.4 Disarming / alarm clearing in the system

Present the card to the device and remove it after a while (approx. 0.5 second).

3.5 Audible signaling

If the SIGNALING CARD (HARDWARE) option is enabled, the device will generate a single short beep after the card has been read and – if the card is held up – after each successive LED comes on.

After removal of the card, the device may generate the following sounds:

3 short beeps – confirmation of arming / disarming, alarm clearing;

3 long beeps – denial of arming / disarming, alarm clearing (the user does not have required rights, or execution of the operation is impossible for other reasons, e.g. there no partitions which can be disarmed or where alarm can be cleared).

2 short beeps [only when interacting with the INTEGRA control panel] – awaiting the second card (the partition requires two codes for arming / disarming).

2 long beeps – unknown card;

The following audible signals can be generated in response to events in partitions served by the device:

Continuous beep – alarm.

Long beeps separated by short pauses – alarm memory.

Long beep every second – fire alarm.

Short beep every 2 seconds – fire alarm memory.

2 short beeps every second – entry delay countdown.

Long beeps every 3 seconds terminated by a series of short beeps (during the last 10 seconds before arming) and one long beep – exit delay countdown.

Sequence of 7 beeps of diminishing duration repeated over and over – auto-arming delay countdown.

3.6 Signaling by means of LEDs

Signaling when the proximity card is presented to the device:

Red LED lit – after removal of the card, the system will be armed in full mode (in the installer defined partitions).

Green LED lit – after removal of the card, the system will be armed in A mode (the installer defines which partitions and in what mode will be armed – see section PROGRAMMING).

Yellow LED lit – after removal of the card, the system will be armed in B mode (the installer defines which partitions and in what mode will be armed – see section PROGRAMMING).

Statuses indicated by LEDs (when the proximity card is not presented to the device):

All LEDs extinguished – none of the partitions controlled by the device is armed or in alarm condition.

Red LED lit, the other LEDs extinguished – all the partitions which are to be armed after removal of the card when the red LED is lit are fully armed.

Red and green LEDs lit – partitions controlled by the device are armed in A mode.

Red and yellow LEDs lit – partitions controlled by the device are armed in B mode.

Red LED lit, dimming momentarily, the other LEDs extinguished – at least one of the partitions controlled by the device is armed.

Red LED lights up every 2 seconds, the other LEDs extinguished – alarm or alarm memory, when none of the partitions is armed.

Red LED blinking slowly – alarm or alarm memory, when at least one of the partitions controlled by the device is armed.

Red and yellow LEDs blinking alternately [only during interaction with INTEGRA] – awaiting the second code input.

Yellow, green and red LEDs blinking in turn – no communication with control panel.

4. Programming

Described below are the device parameters and options. They can be programmed using the DLOADX program or LCD keypad. Shown in square brackets are the names displayed in the LCD keypad of INTEGRA system.

Name – individual name of the device (up to 16 characters).

Tamper alarms in partition [Tamper in part.] – the partition in which alarm will be signaled if the keypad is disconnected from the control panel.

- Master users / Users** **INTEGRA only** – the master users (administrators) and users authorized to use the device.
- LED R** [Partit. LED R] – way of partition reaction after removal of the card when the red LED is lit. The partition can be fully armed or its status can remain unchanged.
- LED G** [Partit. LED G] / **LED Y** [Partit. LED Y] – way of partition reaction after removal of the card when the green LED (mode A) or the yellow LED (mode B) is lit. The partition can be armed in one of available armed modes, it can be disarmed **VERSA only** or its status can remain unchanged.
- Alarm signaling** [Alarm (time)] – the device can audibly signal alarms during the KEYPAD'S ALARM TIME [VERSA] / GLOBAL ALARM TIME [INTEGRA].
- Alarm signaling until canceled** [Alarm (latch)] – the device can audibly signal the alarm memory.
- Signaling entry delay** [Entry time] – the device can audibly signal the entry delay countdown.
- Signaling exit delay** [Exit time] – the device can audibly signal the exit delay countdown, and in case of the VERSA control panel also the auto-arming delay.
- Auto-arm delay countdown** [Auto-arm delay] **INTEGRA only** – the device can audibly signal the auto-arming delay countdown.
- Signaling card (hardware)** [Hardw. signal] – the device can signal by a single beep that the card code has been read out or the LED has lit up (the code is sent to the control panel after removal of the card and only then the panel reaction to the read code is audibly signaled).
- 3 wrong cards alarm** [Al. 3 unk .cards] – reading the unknown card code three times will trigger alarm.
- No auto-reset after 3 tampers** [No autorst.3t.] **INTEGRA only** – you can disable the feature limiting to three the number of tamper alarms from the expander.
- Second code wait signaling** [INT-IT-wt.2cd.] **INTEGRA only** – the device can signal by means of LEDs that it is waiting for the second card. This is a global option (i.e. it is available in DLOADX program for each INT-CR device, but if enabled in any device, it will be enabled in all of them).

5. Specification

Supply voltage	12 V DC ±15%
Maximum current consumption	80 mA
Dimensions:	
INT-IT-LI / INT-IT-LH	22 x 47 x 50 mm
INT-IT-MA	22 x 46 x 52 mm
INT-IT-SY	23 x 46 x 50 mm
INT-IT-PB	25 x 48 x 50 mm
Environmental class according to EN50130-5	II
Operating temperature range	-10...+55 °C
Maximum humidity	93±3%
Working frequency	125 kHz
Supported card standards	UNIQUE, EM4001, EM4002, EM4003, EM4102
Weight	29 g

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