



HOTEL SOLUTION™

Transponder card reader

HTR3.1/B

Transponder card reader for hotel-room access control

- Touch-free recognition of access code on transponder card
- Transfer of access code to HRC3.. room controller
- Built-in optical display of messages from hotel room
- Illuminated symbols for signal indication
- Pushbutton for doorbell feature

Application

The HTR3.1/B transponder card reader is used in conjunction with the HRC3.. room controller. Guest and hotel-staff access codes are read touch-free by the HTR3.1/B transponder card reader, and transmitted to the HRC3.. room controller for access control.

Functions

The HTR3.1/B transponder card reader communicates with the HRC3.. room controller via a serial port, performing the following functions:

- Reads the access code on the transponder card from a distance of 0 ... 6 cm
- After reading it, transfers the access code to the HRC3.. room controller
- Activates the functions programmed in the HRC3.. room controller based on the access code concerned (guest code, hotel staff code, invalid code).
- Transfers the pushbutton signal for the optional doorbell feature
- Displays signals from the HRC3.. room controller by means of illuminated symbols

Types

HTR3.1/B Transponder card reader

Ordering

When ordering, please specify the quantity, product name and type code:

Example **30 Transponder card readers HTR3.1/B**

30 Base frame for installation system AZ26.x (where x = 1 ... 4)

Base frame

The base frame must be ordered separately (see table below):

| Base frame | Cover plate |
|-------------------|------------------------------|
| AZ26.1 | Bticino Living International |
| | Bticino Light |
| AZ26.2 | Vimar Idea |
| | Siemens Delta Futura |
| AZ26.3 | Ave Sistema 45 |
| | Gewiss Playbus |
| AZ26.4 | Legrand Ergo |

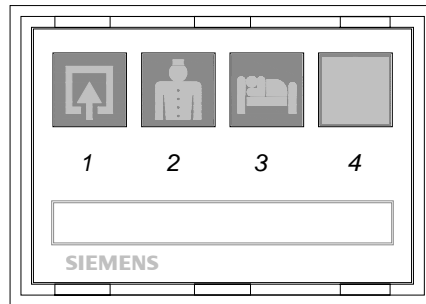
Compatibility

See assortment overview, N6301.

The HTR3.1/B transponder card reader consists of:

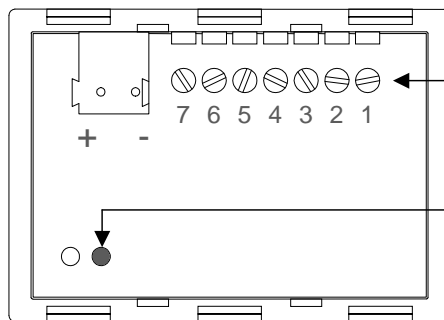
- Plastic housing
- Front cover with:
 - 3 LED fields (red or green)
 - 1 pushbutton for doorbell signal
- Rear, with
 - Screw-terminal connections
 - Pushbutton for bus address configuration
 - Plug-in connection (not used)

Front



- 1: Door status field
- 2: Service call field
- 3: Do not disturb field
- 4: Doorbell button

Rear



Screw terminal connections

Pushbutton for bus address configuration

Key to symbols

| Symbol/Code | Color | Description |
|-------------|--|--|
| | <ul style="list-style-type: none"> • Symbol with green light • Symbol with red light • Flashing symbol • Red light OFF for 3 s | <ul style="list-style-type: none"> • Door open • Door closed • Access denied • Staff access denied: guest is in room |
| | <ul style="list-style-type: none"> • Symbol with red light • Flashing symbol | <ul style="list-style-type: none"> • Room cleaning or Service call • SOS, call for assistance |
| | <ul style="list-style-type: none"> • Symbol with red light | <ul style="list-style-type: none"> • Do not disturb |

The HTR3.1/B transponder card reader is designed for flush wall mounting, and for fixing purposes is installed in a type AZ26.x base frame (where x = 1...4). Cover plates for this base frame are available from the installation ranges of various manufacturers (see "Ordering").

Up to four card readers can be connected to the same room bus.

The address is set by means of pushbutton on the rear of the device (see below).

The maximum permitted current associated with the supply voltage from the HRC3.. room controller must not be exceeded.

Other information

Refer to data sheets N6313, N6314

Mounting

- The HTR3.1/B transponder card reader must be mounted in the entrance lobby of the hotel room at the same height as the light switch.
- Ensure that there is sufficient spare cable in the mounting box to allow access to the pushbutton on the back, for the programming of addresses.
- The device is intended for fixed installation in a dry, enclosed space.
- For three modules, the mounting box must be installed at a depth of 47.5 mm
- Mount horizontally only, with the front plate vertical
- Do not install AC 230 V devices in the same mounting box
- Commissioning must be carried out by trained personnel only
- Do not open the unit
- **Local safety and installation regulations must be observed**

Commissioning

The address can be set by means of pushbutton on the rear of the device:

1. Connect the device to the room controller
2. To activate programming mode, use a small screwdriver to hold the pushbutton down for 3 seconds:
All the LEDs will then light up to indicate programming mode.
3. Pressing the button briefly changes the address one step at a time, allowing you to cycle through the addresses shown below
4. Hold the pushbutton down for 3 seconds again to save the address.
The new address is saved in the non-volatile area of the memory.
All LEDs will then switch off.

The addresses are indicated in code form by the following LED sequences:

| Bus address | LED 1 | LED 2 | LED 3 |
|-----------------------|-------|-------|-------|
| Ready for programming | ON | ON | ON |
| 0x38 | ON | OFF | OFF |
| 0x39 | OFF | ON | OFF |
| 0x3A | OFF | OFF | ON |
| 0x3B | ON | ON | OFF |

Note In the standard application with only one reader, Address 0x38 is intended for the HTR3.1/B transponder card reader.
This address is factory-set in the HTH3.1/B transponder card reader.

Notes on operation (alarms)

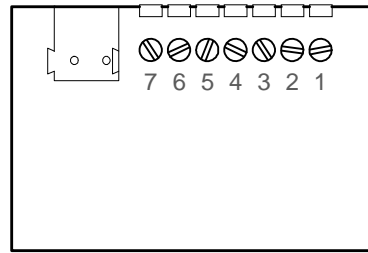
| Light pattern | Description |
|-------------------------------------|---|
| Fast flashing of all symbols | No bus signal, for the following reasons: <ul style="list-style-type: none"> – Room controller switched off – Room controller faulty – Bus cable not connected or loose connection |
| Slow flashing of all symbols (2 Hz) | No bus signal for this device address Possible reasons: <ul style="list-style-type: none"> – Wrong address set in the unit – Wrong address set in the room controller |

Technical data

| | | |
|---|---|--|
| Power supply (from HRC3..) | Working voltage (SELV) | DC 12 V +/- 10%, 1.2 W |
| Bus interface | Bus voltage | SELV DC 12 V |
| | Type | RS485 |
| | Transmission speed | 4800 baud |
| Screw terminals | Max. conductor cross-section | 1.5 mm ² |
| Display | Luminous intensity of LEDs: | 1.8 mcd |
| Transponder card reader | Read/write chip | Atmel/Temic T5567 or T5557 |
| | Operating frequency | 125 kHz |
| Transponder cards | Aerial | Rectangular, T5567 |
| | Operating frequency | 125 kHz |
| Environmental conditions to EN 50090-2.2 | Operating temperature: | 0...50°C |
| | Transport temperature: | -20...55°C |
| | Humidity | Max. 90% non-condensing |
| | Air pressure during operation: | Min. 700hPa (3000m above sea level) |
| | Air pressure during transportation: | Min. 700hPa (10, 000m above sea level) |
| Standards Electromagnetic compatibility | Emitted interference in residential areas | EN 61 000-6-3 |
| | Interference immunity in residential areas | EN 61 000-6-1 EN 50090-2.2 |
| Housing protection standard | To EN 60 529 | IP 20 |
| Protection class | To EN 61 140 | III |
| CE conformity | Meets the requirements of: EMC Directive | 89/336/EEC |
| UL/CUL approval | | UL/CUL 916 |
| Dimensions | Suitable for flush mounting in rectangular flush-mounting box or hollow wall box | 3 modules |
| | Orientation | Horizontal only |
| | See also dimension diagrams | 51 x 73.5 x 62 mm (H x W x D) |
| Color | Plastic components | Gray |
| | Front | Gray |
| Weight | Without packaging | 84 g |
| | With packaging | 146 g |

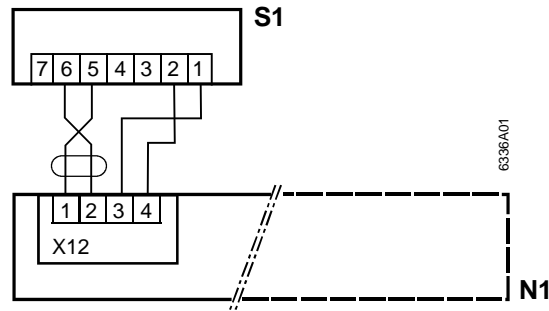
Connection diagrams

Connection terminals



- 1 DC +12V
- 2 DC -12V (GND)
- 3 Not used
- 4 Not used
- 5 BUS RS 485 TX
- 6 BUS RS 485 RX
- 7 GND

Circuit diagram

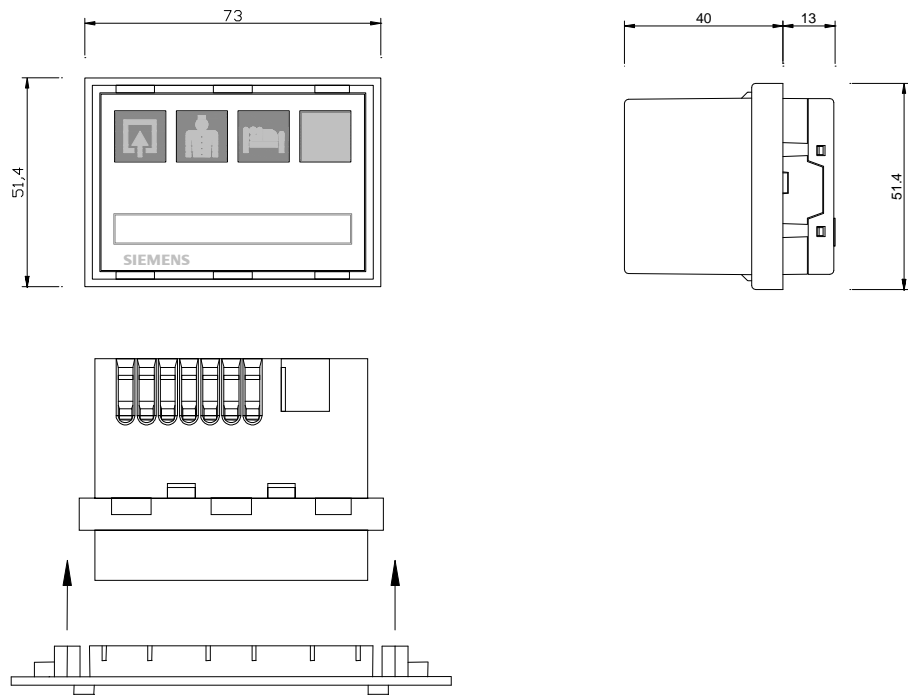


S1 Transponder card reader
HTR3.1/B

N1 HRC3.. room controller

Dimensions

Dimensions in mm



Transponder card reader with base frame AZ26.1; AZ26.2; AZ26.3; AZ26.