

Access reader HITAG

Applications

- Access control
- Door management
- Parking systems
- Elevator control

Functions

- Contact less card reader for access control
- Reads serial number (UID) and memory information from (MIRO / HITAG-1® HITAG-2®)
- Connection of up to 8 card readers to the access control units (SecuCrypt-protocol)
- Possibility of firmware updating the card reader from operator station via access controller
- Power supply 12 - 24 V DC by access controller
- Address setting by micro dipswitches
- Tamper
- Signaling elements: 3x LED, 1x buzzer
- Standard housing for mounting in standard outlet sockets
- Possibility of surface mounting by using finery frames (Accessory: XMP-TMC-860)
- Easy installation by connector clamps
- Potted electronic

Technical Data

Case:	ABS material (impact-proofed housing)
Colour:	silver
Dimensions (LxWxH):	90 x 90 x 21mm
Protection type:	IP 54
Supply voltage:	10-24 V (AC / DC)
Current consumption:	Approx.111 mA / 12V DC
Environmental conditions:	From -20°C to +70°C (operation and storage)
Interfaces:	RS 485 (2 wire)
Processor:	M16C 16 Bit; 16 MHz; CMOS-Design
Program memory:	RAM 20kB Flash-Memory 256kB

protecting, managing, booking

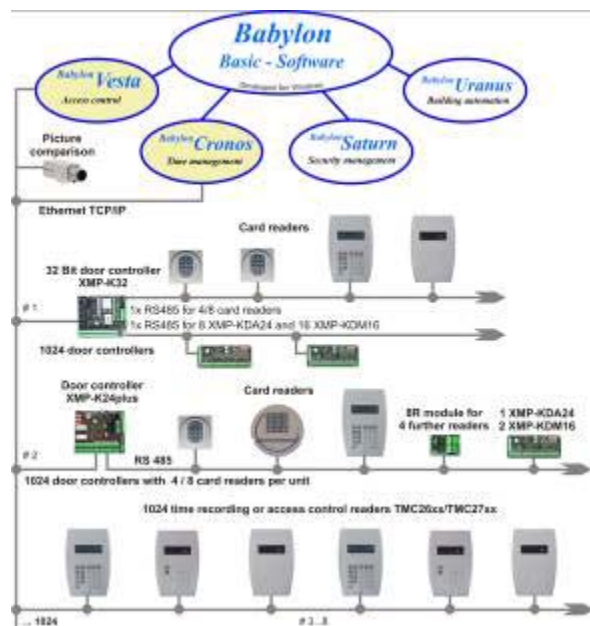


XMP-TMC2330



XMP-TMC2340

Scheme of connection for card readers in the BABYLON-System

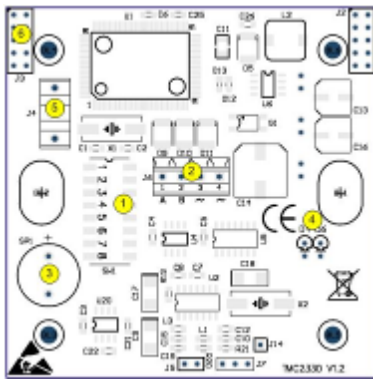


Legend

XMP-K32: intelligent access control unit with RS485 and 10/100 Mbit LAN interface.
Up to 8 access terminals are connectable.

XMP-K12: intelligent access control unit with RS485 and 10/100 Mbit LAN interface.
Up to 2 access terminals are connectable.

Order number:
XMP-TMC2330
XMP-TMC2340 with Sensor-PIN-Code



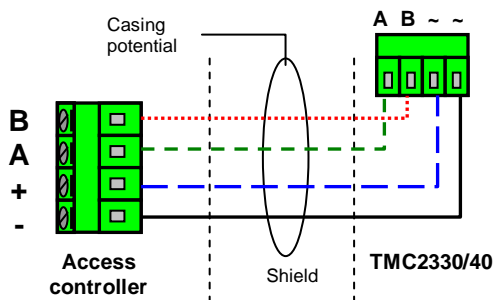
Backside of the reader

1. Dip switch block SW1
2. Interface RS 485 and power supply
3. Buzzer
4. Communication LEDs
5. Tamper
6. Interface to programming

Terminal assignment for the XMP-TMC2350/60

TMC2330/40	XMP-K12/K32 (R1..R4)	Description
~	+ / -	Power supply
~	+ / -	Power supply
A	A	Reader interface
B	B	Reader interface

Scheme of connecting from the reader to the access controller



Hints for wiring:

The power supply can be provided central by the **access controller** (recommendation). The connection can be realized star- or bus-like. Note the following distances:

Distance cable type

Up to 200 m 2x2x0,8 (shielded)

Meaning of the micro switches SW1

Switch	Meaning
1-3	For binary setting of the reader addresses 0..7 (e.g. only switch 1 = ON → reader address 1, or only switch 3 = ON → reader address 4, or 1, 2 and 3 = ON → reader address 7)
4	Default OFF
5	Baud rate setting to K24/K32 OFF: 9600 (suggested); ON = 19200
6	ON = UCI-Protocol
7	Reserved
8	ON = Boot loader activated

Hints to reading variants

The TCM2330/2340 reads the **serial number** of Miro-, Hitag-1 and Hitag-2 badges. The reader transmits a 14 digit badge information. Digit 14 of the read badge type represents: 0 = Miro, 1 = Hitag-1, 2 = Hitag-2.

In case of evaluating a 14 digit badge information it can be necessary to replace digit 14 by a blank in the access controller parameters, e.g., if different reader types are in use.

Hints to the reading distance

In dependence on the environment conditions and types of data carriers the reading distance can be 70 - 100 mm. Metal particles within the distance of 120 mm to the reader can reduce the reading distance.

Recommended card types: ISO standard

Meaning of the LEDs

- yellow: operation state
- yellow blinking: no communication
- red: not authorized
- green: authorized

Reverse side D4: communication TXD

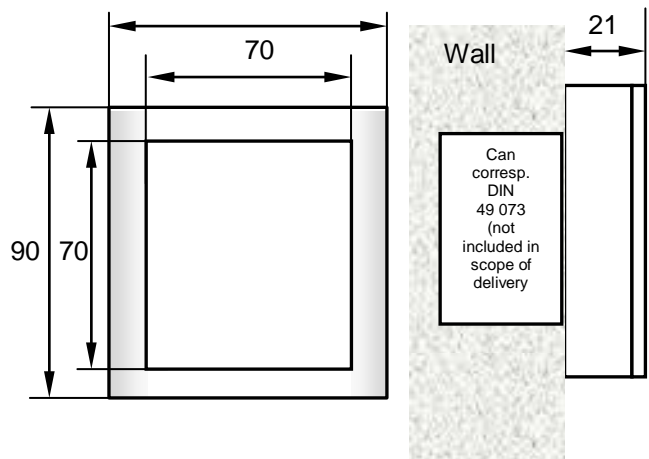
Reverse side D5: communication RXD

Communication protocols

SecuCrypt® - Blowfish encryption

UCI - Omron 5 bit format (magnet stripe)

Build in dimensions in mm



Card reader with stable finery frame
XMP-TMC-850
Frame dimensions:
91.0 x 91.0 x 21.0mm

