Access terminal MIFARE

Fields of application
- Access control
- Time recording
- Time and attendance
- Door management
- Parking systems
- Elevator control

XMP-TMC2450 **XMP-TMC2460**

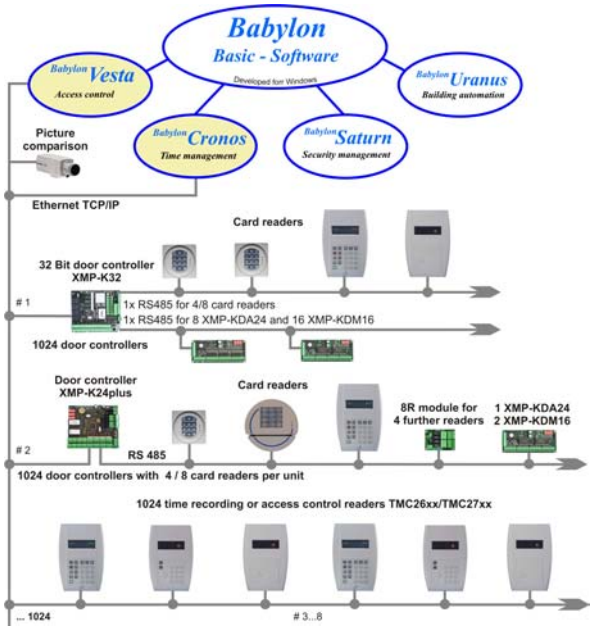
Functions

- contactless reading method (Mifare and Mifare-Light)
- reading distance: up to 7 cm
- standard casing for concealed mounting
- easy installation by means of Phoenix connectors
- connection possibility of up to 8 readers (standard 4 readers) at the door control unit **XMP-K32 and XMP-K32lite**
- data clock interface
- connectable together with TMC2500 readers on the same door controller
- internal tamper switch
- signaler:
  3 x LED`s (red, green, yellow)
  1 x buzzer
- electronic weatherproofed (not evaluated by UL)
- address adjustable via dip switch
- optionally with PIN-CODE keyboard (XMP-TMC2460)

Technical data

- **color :** silver
- **dimensions (HxLxW):** 80 x 80 x 25 mm
- **protection:** IP 54
- **supply voltage:**
  12-24 V AC/DC from UL294 or UL603 power source, for example XMP-K32 door controller
- **current consumption:**
  200 mA (12V DC)
- **environmental conditons**:
  from -20°C to +70°C (operation and storage)
  UL tested ratings : 0 to +49°C
- **interfaces:** RS 485 (2 wire)
  clock data (Omron Emulation)
- **processor:** Mitsubishi M16C
  16 Bit; 8 MHz; CMOS-Design
- **program memory:** flash memory 256kB
- **RAM:** 20 kB CMOS RAM

Connection scheme



TMC 2450/2460
(up to 8 readers connectable to door controller **XMP-K32 / XMP-K32lite**)

Legend

XMP-K32: intelligent door control unit with RS485 and 10/100Mbit LAN interface. 266MHz processor with Linux embedded operating system.
100.000 access levels, **500.000** master data (extendable on **2.000.000**). Up to **500.000** bookings can be stored. Up to 8 access terminals are connectable.

Order Numbers

XMP-TMC2450 Mifare access reader
XMP-TMC2460 Mifare access reader with keypad

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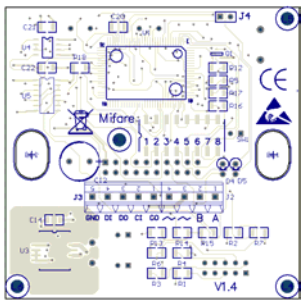


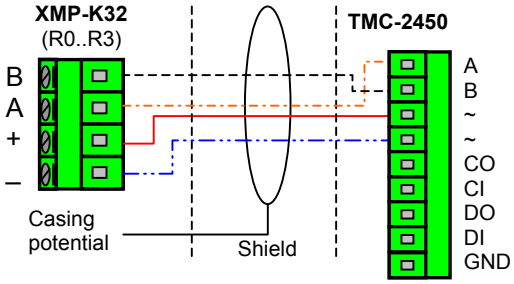
Backside of the reader

Terminal assignment for the XMP-TMC-2450/ 2460

TMC 2450 TMC 2460 (J1)	XMP-K32 (R1..R4)	Description
A	A	Reader interface
B	B	Reader interface
~	~	Supply voltage
~	~	Supply voltage
CO		Clock *
CI		Reserved *
DO		Data *
DI		Reserved *
GND		GND for equipotential bonding (option)

Note * : Terminals DO,DI,CO,CI are to be unconnected for UL applications

Connection scheme between reader and access controller



Hints for wiring:

The power supply should be provided central by the **XMP-K32** (recommendation). One has to consider 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	Baudrate setting to K24p/K32/K32lite OFF: 9600 (suggested); ON = 19200
6	ON = UCI-Protokoll
7	Reserved
8	ON = Bootloader activated

Hints to the reading procedures

The TMC2450/2460 can read the 14-digit identification number or sector-block-information of Mifare cards. The sector-block information can be 16-digit Ascii or 32-digit transfer.

Hints to the reading distance

In dependence on the environment conditions and types of data carrier the reading distance is up to 70 mm. Metal particles within the distance of 120 mm to the reader can reduce the reading distance.

Meaning of the LEDs

yellow:	operation state
red:	not authorized
green:	authorized
Backside D8:	communication TXD
Backside D9:	communication RXD

Reader protocol

UCI - Omron 5 Bit (like magnetic stripe)
(Hint: XMP-K24^{plus} – firmware release 3.8 or higher needed)
SecuCrypt® - Blowfish encryption
(Hint: only for XMP-K32/K32lite)

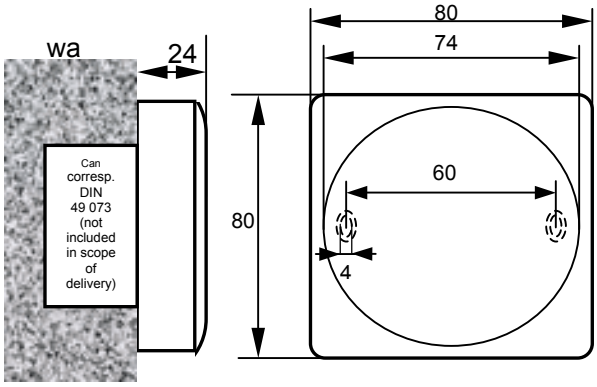
Wiring to the door controller

For the installation of an XMP-TMC2450 reader to a door controller, please refer also to the instruction manual **Part. No. : IMXMP-K32lite/K32** delivered with the required door controller XMP-K32 or XMP-K32lite. Door messages and the activation of the door opener should not pass through a bus cable. Depending on the door monitoring model, this requires cables with 4 or 5 (6) pairs of wires from door controller to the controlled door.

Setting the readers parameters

The user has the option of significanttly influencing the control behavior of the XMP-TMC2450 reader. Please refer also to the instruction manual
Part. No.: UMXMP-K32lite/K32
delivered with the required door controller XMP-K32 or XMP-K32lite.

Dimensions in mm



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