

Supervisory Unit

Applications

- Security technology
- Fault message technology
- Intruder alarm technology
- Door management
- Window-, Door contacts, Motional detectors
- Access control
- Time control

Functions

- Supervisory of contacts
- Connection of primary signalling lines (supervised inputs)
- Supervisory of states as follows:
 - interruption (e.g. sabotage);
 - alarm;
 - state of rest (no alarm);
 - short circuits (e.g. sabotage);
- Supervisory of devise own sabotage contacts
- Connection to the door control unit XMP-K24 or additional to the local control module XMP-96 about communication card VCOM

Technical data

Inputs: 16 supervised inputs with the states:
interruption, alarm, normal state, short circuit

Supply voltage: about 12-24 V AC/DC via XMP-K24/K24P/K32

max. distance
to the K24/K24P: 200 m (supply voltage via XMP-K24/K24P/K32)
to the XMP-96: 1500 m (separate supply voltage)

Current consumption: about 130 mA

Interfaces: RS485 two wire (to K24/K24P/K32 or XMP-96 via VCOM-card)

Ambient temperature limits: Operation: 0..50 °C
Storage: -40..70 °C

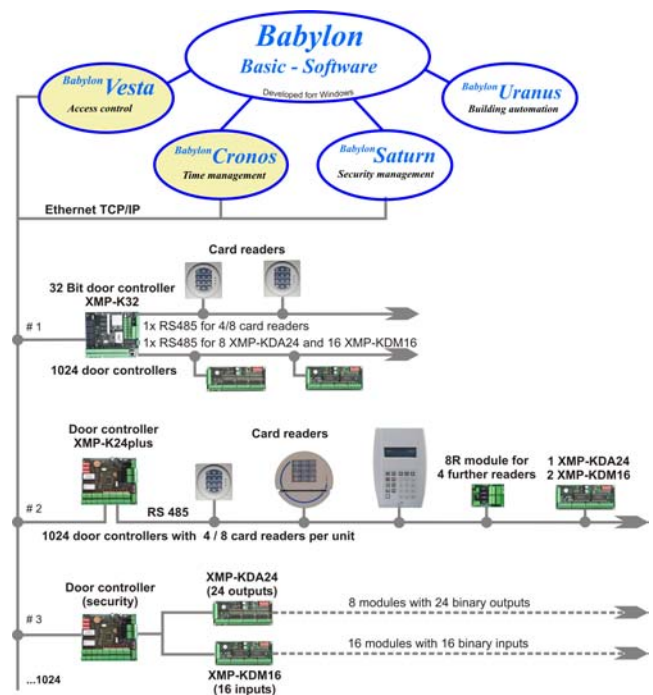
Dimensions: (HxBxT) 59 x 139 x 25 mm

Baudrate: 9600 or 19200

Supervisory of primary signalling lines, point out



KDM-16



Legend

EBOX: For connection of up to 3.584 additional readers. Intelligent local ethernet interface / controller with 2 serial interfaces. Powersupply 220 V. Up to 56 EBOXes connectable to the ethernet-cablenet.

XMP-K24/K24Plus: Intelligent door control unit for connection of up to 4 access terminals. 8 digital outputs and 16 digital inputs.

XMP-K32: For the connection via the second RS485 interface for KDM16. Power-supply via stabilized switching voltage regulator 110-240 Volt AC with USV.

Important customer info!

Faulty circuit boards have to be disposed correctly. Batteries and accumulators are special waste. The packing can be reused or disposed. Green filling-material can be disposed as bio-waste.

What is a KDM-16 ?

KDM-16 (K24-door-management with 16 inputs supervised) is the name of a expansion module for connection of pointing out contacts with supervisory of conduction lines within the XMP-system structure. Connection of KDM-16 is realized via the serial interface to the intelligent door control unit XMP-K24/K24Plus or to the VCOM-card (communication card of XMP-96). Within the supervisory technical field the KDM-16 module permits an enlargement of an alarm and pointing out contact integration on a low cost level. Also by using a KDM-16 the four reader interfaces of XMP-K24 are useable.

Application areas:

e.g., door contacts, window contacts, motional detectors

By using these assembly groups in connection with the KDM-16 not only the state messages of the signaling units will be registered. The connection lines to the signalling units additional will be supervised for parting of cables and short-circuits, too.

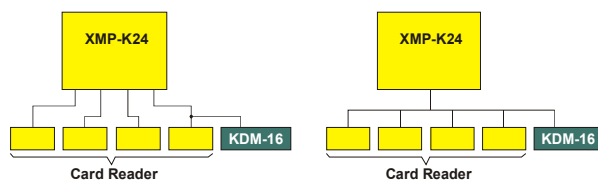


Clamp block for connection of pointing out contacts

- J23: Connections for data line and supply voltage
- SW-1: Dipswitch block for address and special functions
- D4: Transmitting diode of data line (TxD)
- D5: Receiving diode of data line (RxD)
- I00-I15: Supervised inputs 00-15
- J6: Connection possibility of a sabotage contact

Connection technique

Per XMP-K24/K24Plus up to two XMP-KDM-16 can be connected to the commu-line of the card-readers. When connecting a second KDM16 the module has to be addressed adequately (SW1 = ON). With a special K24Plus security firmware up to 16 KDM-16 can be connected analogous to the use of a VCOM-card (see datasheet XMP-96). The KDM-16 is running with a voltage-supply of 12V DC (direct voltage) with a maximum current consumption of 130 mA.

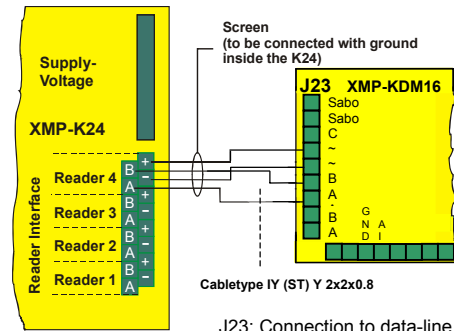


Connection of the KDM-16 at the XMP-K24/K24Plus

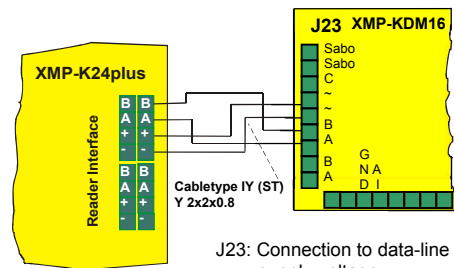
In the following example the KDM-16 is connected to the reader interface 4 of XMP-K24. The connection directly at the card reader is possible, too. For connection distances >200 m the KDM-16 needs a separate voltage supply.

Attention!

For connection of the KDM-16 via XMP-K24/K24Plus the output fuses on the K24 (standard 250 mA) have to be adapted to the current consumption of the corresponding reader and the connection technics, respectively.



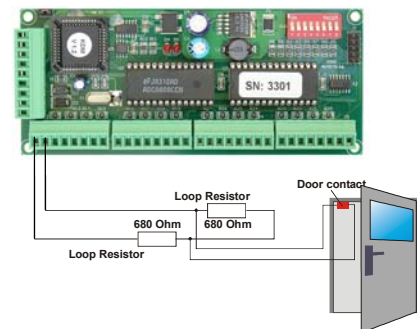
J23: Connection to data-line and supply-voltage



J23: Connection to data-line and supply-voltage

Connection of the inputs J2 - J5

For connection of contacts with supervised connection lines 16 inputs are available. These inputs have to be wired after the following example:



For installation of a sabotage contact (e.g. casing box contact of the KDM-16) the connection J6 is provided for. It has to work as opener contact.

