

# 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

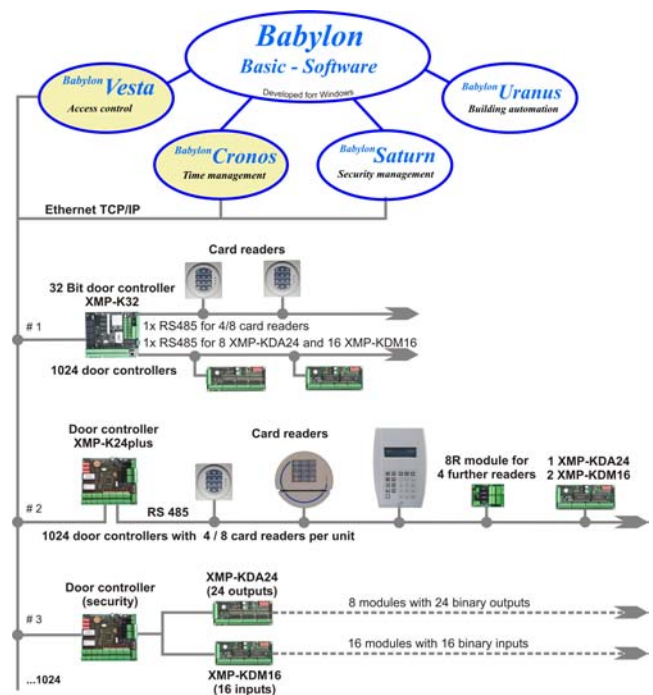
## Technical data

- 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.

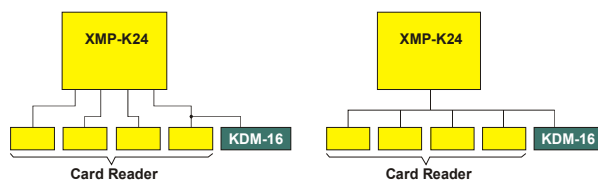


Clamp block for connection of pointing out contacts

- 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.

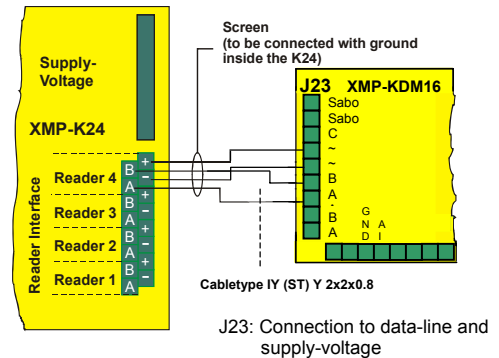


### Connection of the KDM-16 at the XMP-K24/K24Plus

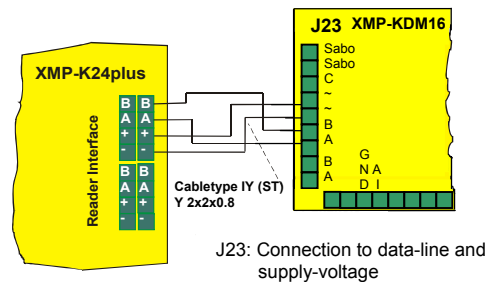
In the following example the KDM-16 is connected to the reader interface 4 of XMP-K24. The connection directly at the card reader is possible, too. For connection distances >200 m the KDM-16 needs a separate voltage supply.

### 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.



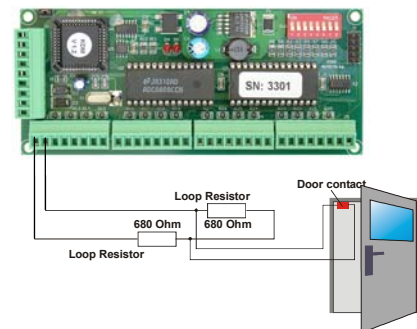
J23: Connection to data-line and supply-voltage



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.

