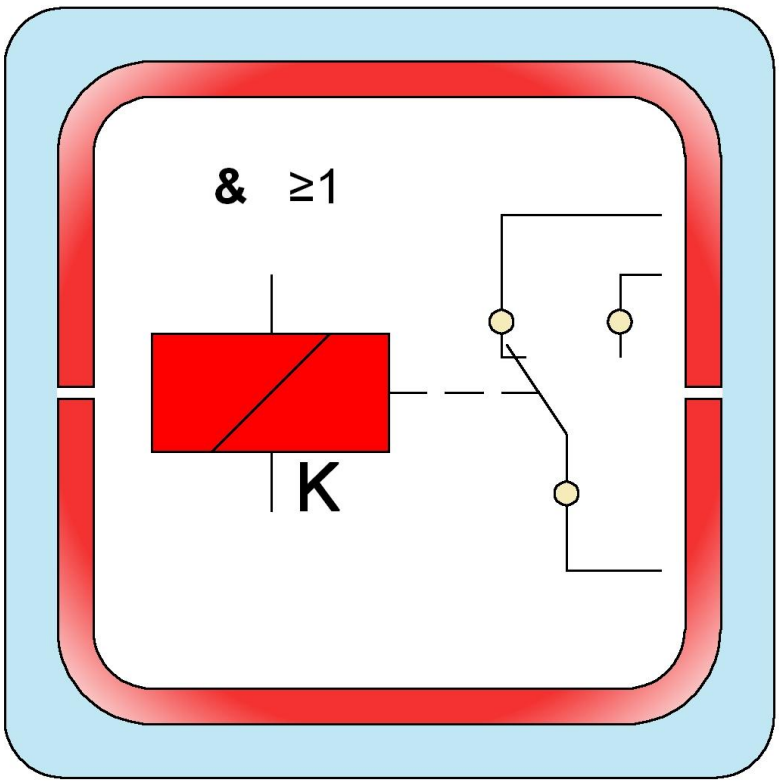
MMS 6720

Output relay card with integrated input logic



- **For adapting MMS 6000 alarm functions to external systems**
- **Installation in 19" frames**
- **Single pole double throw switches (SPDT)**
- **Status indication with LED´s on the module front for internal and external supply voltages**
- **Status indication by means of LED´s at the front plate, one LED per relay**
- **Wide control voltage range low: 0…3V high: 13…32V (nom. +24 Vdc)**
- **Open circuit or closed circuit mode adjustable with jumpers**

Application:

The **MMS 6720** Relay Card was developed for the use in industrial applications where reliable adaptation between electronic equipment and system devices is required.
The **MMS 6720** relay card cards offers simple adaptation of low-level logic signals to electronic devices.
Moreover, it offers many different possibilities to operate input signals with each other by using the integrated logic inputs.
The relay cards are optimally suitable for the use in **MMS 6000** systems for the output of:

- pre and main alarms
- error indications

Function MMS 6720
The relays can be controlled with positive voltage signals, either individually via direct inputs or via the integrated logic inputs.

For logical operations the card provides an 8-channel AND and an 8 channel OR-gate.

The card comprises 6 relays, each of them with a single pole double throw contact. Beside this, channels 1 - 3 are equipped with transistor outputs to present 24V control signals. This control signal is short-circuit proof.

Orange-coloured LED´s on the module front indicate the switching states of the relays separately for each of the relays.

Moreover, the ok state of the external supply voltage as well as of the internal voltages are shown with LED´s on the front plate.

Default response time of the relays is 20 ms. By removing the capacitors C17... C27, the response time for the relays can be reduced to 6 ms.

Technical Data:

Inputs:
6 direct control inputs:
Control voltage:
13…32 V DC (nom. +24 V DC)
Current consumption:
max. 3,5 mA
8 control inputs AND-operated:
Unused AND-inputs must be set to "high" by means of jumpers
Control voltage:
13…32 V (nom. +24 V DC)
Current consumption:
max. 2,0 mA
8 control inputs OR-operated:
Control voltage:
13…32 V (nom. +24 V DC)
Current consumption:
max. 3,0 mA
Outputs:
6 relay outputs
switching voltage
Max. 48 V
Switching current:
Max. 2,0 A
3 control outputs
switching voltage
- nom +24 V DC
- common U+
Switching current:
short-circuit proof
max. 60 mA
Environmental conditions
Protection class:
module: IP 00 according to DIN 40050
Front plate: IP21 according to DIN 40050
Climate conditions:
according to DIN 40040 class KTF
Operating temperature range:
-10....+65°C
Temperature range for storage and transport:
-40....+85°C
Permissible relative humidity:
5....95%, non condensing

Dimensions:

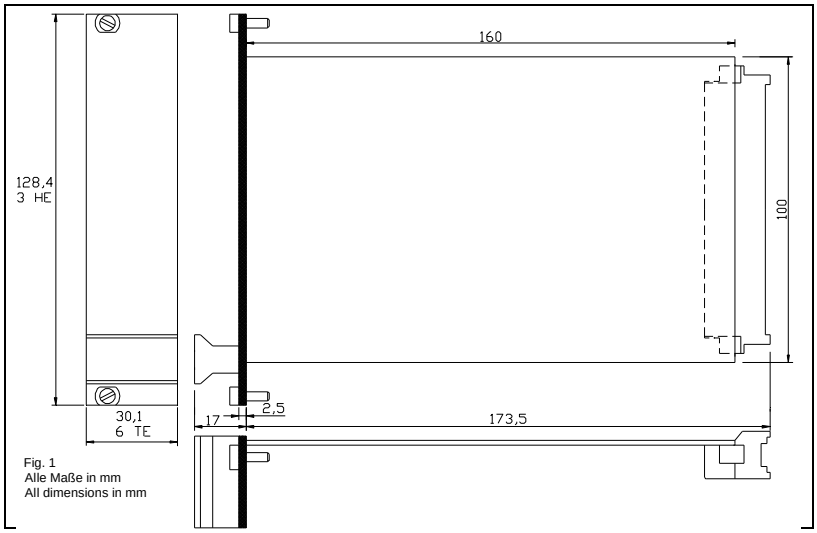


Fig. 1
Alle Maße in mm
All dimensions in mm

Connection diagram:

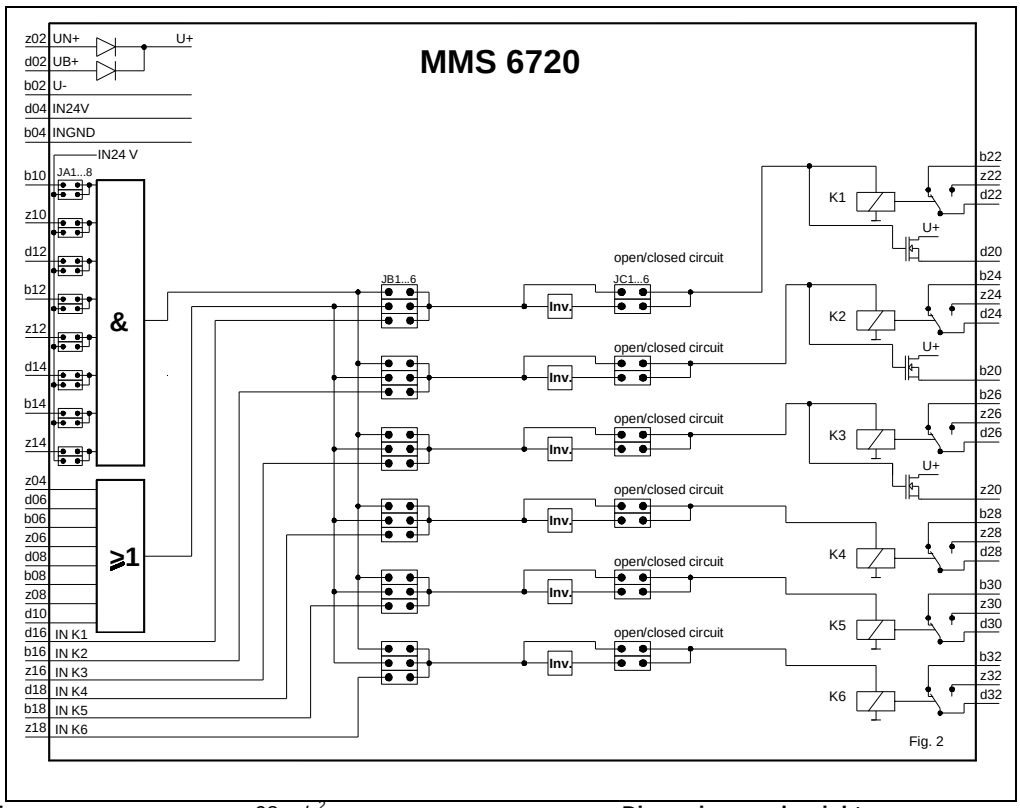


Fig. 2

Permissible vibration:
according to IEC 68-2, part 6
Vibration amplitude:
0.15 mm in range 10...55 Hz
Vibration acceleration:
16.6 m/s² in range 55...150Hz
Permissible shock:
according to IEC 68-2, part 29
peak value of acceleration:
98 m/s²
nominal shock duration:
16 ms
EMC resistance:
according to EN50081-1 / EN50082-2
Supply voltage:
18....24....31.2 V DC according to IEC 654-2, class DC4
Power consumption:
max. 12 W (max. 500 mA at 24 V)

Dimensions and weights:
PCB/euro card format according to DIN 41494 (100 x 160 mm)
Width: 30,0 mm (6 TE)
Height: 128,4 mm (3 HE)
Length: 160,0 mm
Net weight: approx. 200 g
Gross weight: approx. 330 g
Packing volume: approx. 2,5 dm³

Ordering Codes:

MMS 6720 Relay card with six single pole double throw contact and input logic..... **9100-00062**

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