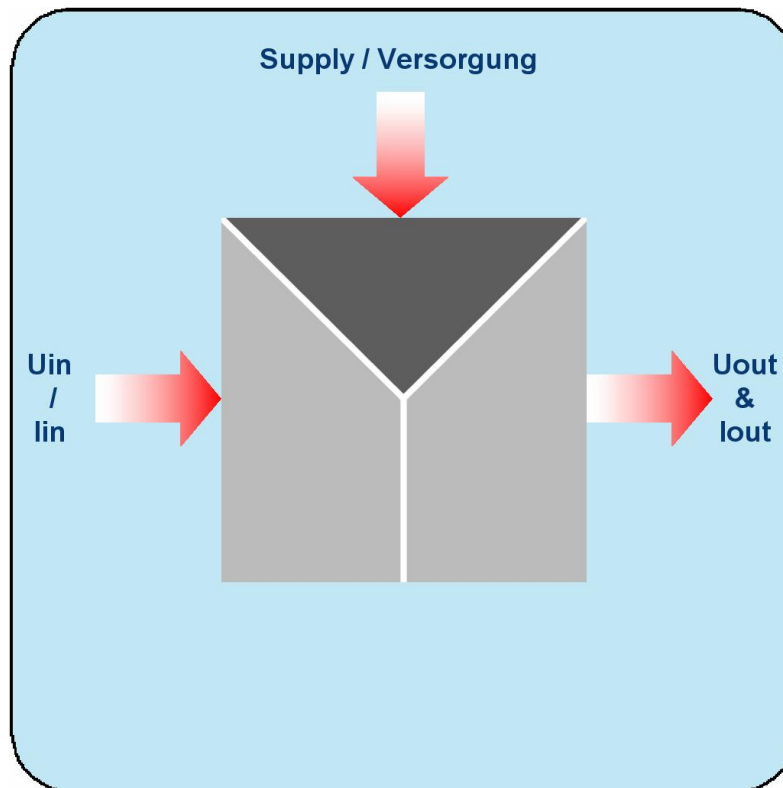


MMS 6710

Four channel Isolation Amplifier



- 4 channels per 19" card
- Full three-section isolation
- Variable input circuits
- All outputs provide current and voltage signals
- Frequency range up to 20 kHz
- Redundant supply inputs

Application:

The **MMS 6710 Quadruple Isolation Amplifier** is part of the **MMS 6000** Machine Monitoring System. The module serves the galvanic isolation of electric standard signals with frequencies of up to 20kHz in four separate channels.

Version **MMS 6710** provides a three section isolation i.e. inputs and outputs of all channels are isolated from each other and from the module supply.

Each input may separately be set to either 0...10V, 0...5V, 0...2V or 0/4...20 mA by means of DIP switches. The galvanical isolated outputs provide voltage signals 0...10V and current signals 0/4...20mA.

The **MMS 6710** Isolation amplifier requires a d.c. supply voltage of nominal +24V. Two supply inputs, decoupled via diodes, permit the redundant supply of the module. A green LED at the module front indicates the supply of the amplifier.

Technical data:**Inputs:**

Nominal range: 0...10 V
 Limit range: ± 15 V
 Input resistance
 - Voltage input: ≥ 100 kOhm
 - Current input: 50 Ohm

Outputs:

Nominal range:
 Voltage output:
 0...10 V,
 Load resistance:
 ≥ 10 kOhm
 Current output:
 0...20 mA,
 burden 0...500 Ohm

Transmission characteristic:

Dynamic transmission range:
 0...20 kHz
 Transmission error: $< 0,5$ %
 Linearity error: $< 0,01$ %

Power supply:

Nominal supply voltage:
 +24 V DC

Permissible voltage range:
 +18...+24...+31,2 V
 acc. to IEC 654-2, class DC 4
 Current consumption:
 max. 400 mA

Environmental conditions:

Operating class:
 KTF acc. to DIN 40 040
 Environmental temperature:
 Reference temperature: $+ 25$ °C
 Nominal operating range:
 0...+65 °C
 Temperature for storage and
 transport:
 - 30...+85 °C
 Relative humidity:
 5...95 %, non condensing
 Vibration:
 According to IEC – 68 – 2 part 6
 Amplitude:
 0,15 mm at 10...55 Hz
 Acceleration:
 19,6 mm/s² at 55...150 Hz

Shock:

According to IEC – 68 – 2 part 29
 Peak value:
 98 m/s²
 Nominal shock duration:
 16 ms

Protection class:

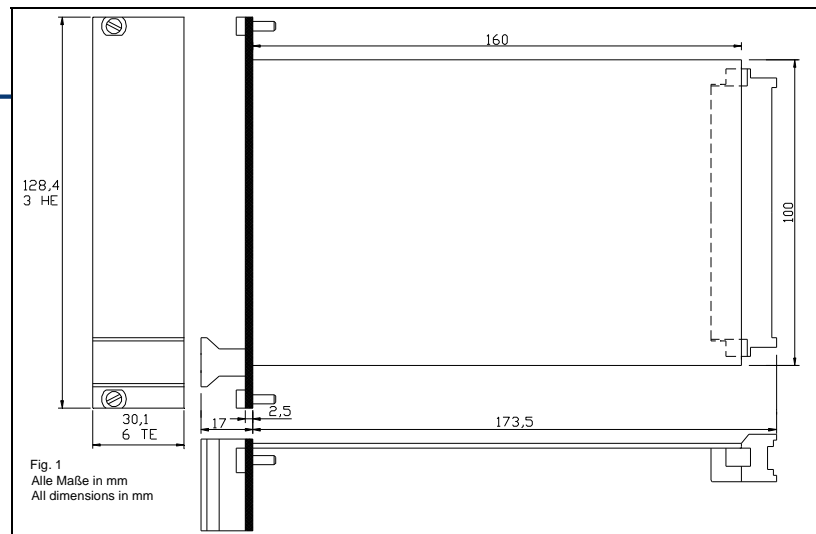
IP 00, open construction according
 to DIN 40 050

EMC:

according to EN 50 081-1 /
 EN 50 082-2 fulfilled

Mechanical design:

Printed board:
 Euro- Format (100x160 mm)
 according to DIN 41 494
 Width:
 6 TE (approx. 30 mm)
 Connector:
 DIN 41 612, type F 48 M
 Weight:
 approx. 150 g (without packing)
 approx. 300 g (with packing)

Mechanical Dimensions:**Ordering codes:**

MMS 6710	Three-section isolation amplifier.....	9100 – 00042
MMS 6710/10	Three-section isolation amplifier, all inputs same potential.....	9100 – 00044
MMS 6710/20	Three-section isolation amplifier, all outputs same potential.....	9100 – 00045
MMS 6710/30	Three-section isolation amplifier, all inputs same potential, all outputs same potential.....	9100 – 00046