The MC73-88-T relay card provides 8 channels with electronic output circuits for applications where conventional relay cards cannot be used reliably due to their specific contact limitations.

The card is specifically suitable for applications with:
- high switching frequencies
- low input currents
- minimal load currents

The non-polarised input circuits provide constant current characteristics. This allows a wide range of input voltages for control operations. The output stages are also non-polarised and have short-circuit protection. Yellow LEDs located on the front cover indicate the output status.

The cards are connected via a 32-pole or 48-pole edge connector (type F - DIN 41612). The 48-pole edge connector provides a centre row with grounding terminals mounted on busbars, one for connection of the input and one for the output.
### Couplers and Interface Devices

#### Type
- **Ident-No.**: MC73-88-T/24VDC
- **90 802**

#### Galvanic Isolation
- Input circuits and output circuits from and to each other

#### Input Circuits
- **Type**: AC
- **Ident-No.**: 90 802
- **Galvanic Isolation**: input circuits and output circuits from and to each other

#### Output Circuits
- **Type**: AC
- **Ident-No.**: 90 802
- **Galvanic Isolation**: input circuits and output circuits from and to each other

#### Interface of TTL-output (open collector) with one PLC-input
- **input voltage**: 5…30 VDC
- **input current**: ≤ 10 mA (typically 8.5 mA)
- **minimum input pulse**: ≥ 50 µs
- **minimum off-time**: ≥ 100 µs

#### PLC Type
- **MC73-88-T/24VDC**
- **Ident-No.**: 90 802

#### Galvanic Isolation
- **input circuits and output circuits from and to each other**

#### Input Circuits
- **non polarised**
- **input voltage**: 5…30 VDC
- **input current**: ≤ 10 mA (typically 8.5 mA)
- **minimum input pulse**: ≥ 50 µs
- **minimum off-time**: ≥ 100 µs

#### Output Circuits
- **transistor isolating transformer, short-circuit prot.**
- **switching voltage**: ≤ 30 VDC
- **switching current**: ≤ 200 mA
- **voltage drop**: ≤ 3 VDC (50 mA)
- **leakage current**: ≤ 50 µA
- **switching frequency**: 5 kHz
- **pulse rise time**: t<sub>on</sub> 10 µs
- **pulse release time**: t<sub>off</sub> 50 µs

#### LED Indications
- **yellow**

#### Eurocard
- **100 x 160 mm (DIN 41494)**
- **material**: glass-fiber reinforced epoxy resin, quality class FR4
- **front panel**: plastic, 4TE = 20.32 m
- **connection**: connector per DIN 41612, type F, 32-pole (series z + d) or 48-pole
- **operating temperature**: -25…+60 °C

#### Typical Applications

- **Interface of TTL-output (open collector) with one PLC-input**
- **OR-combination**
- **PNP output**
- **NPN output**
- **AND-combination**

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**Note:** The short-circuit protection characteristics allow inductive and capacitive loads as well as light bulbs to be directly connected to the output circuits. Interconnection of the output circuits pose no problems. For series connection of several output circuits, the sum of all voltage drops must be considered.