Switching Amplifier MK1-11-R
1 channel

- Single channel amplifier
- Input circuit according to EN 50227 (NAMUR)
- Galvanic isolation between input circuit and output circuit
- The 230 VAC device provides additional galvanic isolation from supply voltage
- Relay output with one SPDT contact
- Selectable NO/NC output function

The switching amplifiers type MK1-11-R are single channel devices with an input circuit according to EN 50227 (NAMUR). They can be used in conjunction with sensors conforming to EN 50227 (NAMUR), variable resistors or potential-free contacts.

Connecting the sensor according to possibility (I) of the block diagram, selects the normally open (NO) output function. If connected according to possibility (II), the normally closed (NC) output function is selected.

A green LED on the front cover indicates that the device is powered. The yellow LED indicates the switching status.

Terminals 3 and 6 provide a voltage of 8 V for a max. load of 75mA.
### Switching Amplifiers

<table>
<thead>
<tr>
<th>Type</th>
<th>MK1-11-R/230VAC</th>
<th>MK1-11-R/24VUC</th>
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<tbody>
<tr>
<td>Ident-No.</td>
<td>75 400 00</td>
<td>75 400 07</td>
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#### Supply Voltage $U_B$
- **Supply Voltage** $U_{B}$: 196...253 VAC 19...29 VUC
- **Line frequency/ripple** $W_{PP}$: 48...62 Hz ≤ 2 VAC
- **Power/current consumption** between input circuit, output circuit and supply voltage for 250 $V_{ms}$, test voltage 4 $kV_{ms}$
- **Galvanic isolation** between input circuit, output circuit and supply voltage for 250 $V_{ms}$, test voltage 4 $kV_{ms}$

#### Input Circuits
- **Operating characteristics** according to EN 50227 (NAMUR)
  - **Voltage** 8 V
  - **Current** 8 mA
  - **Switching threshold** 1.55 mA
  - **Hysteresis** typ. 0.2 mA

#### Output Circuits
- **Switching voltage** ≤ 250 VAC/120 VDC ≤ 250 VAC/120 VDC
- **Switching current per output** ≤ 2 A ≤ 2 A
- **Switching capacity per output** ≤ 500 VA/60 W ≤ 500 VA/60 W
- **Switching frequency** ≤ 10 Hz ≤ 10 Hz
- **Contact material** silver-alloy + 3 µm Au silver-alloy + 3 µm Au

#### LED Indications
- **Status indication**
  - **Power "ON"**
    - yellow green

#### Terminal Housing
- **12-pole, 27 mm wide, Polycarbonate/ABS, flammability class V-0 per UL 94**
- **Mounting** snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting
- **Connection** via flat terminals with self-lifting pressure plates
- **Connection profile** ≤ 2 x 2.5 mm² or 2 x 1.5 mm² with wire sleeves
- **Degree of protection (IEC 60529/EN 60529)** IP20
- **Operating temperature** -25...+60 °C