The MK43-111-R setpoint device is used to monitor either 0/4...20 mA current signals or voltage signals from 0/2...10 V. The front panel potentiometer serves to set the limit value.

The monitoring mode depends on the configuration of terminals 2 and 5. Linking terminals 2 and 5 selects the overrange monitoring mode, i.e. the output relay de-energises, if the limit value is exceeded. Leaving terminals 2 and 5 open, selects the underrange monitoring mode, i.e. the output relay de-energises, if the preset limit value is underranged.

Devices with a 24 VDC power supply do not provide galvanic isolation between the inputs and the power supply.
## Setpoint Monitors

<table>
<thead>
<tr>
<th>Type</th>
<th>MK43-111-R/230VAC</th>
<th>MK43-111-R/24VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ident-No.</td>
<td>75 069 00</td>
<td>75 069 07</td>
</tr>
</tbody>
</table>

### Supply Voltage $U_B$
- Line frequency/ripple $W_{pp}$
  - 48...62 Hz
- Power/current consumption
  - ≤ 2.5 VA

### Clearances and creepage distances
- Input circuit to output circuit
  - ≥ 4 mm
- Output circuit to supply voltage
  - ≥ 4 mm
- Input circuit to supply voltage
  - ≥ 4 mm
- Test voltage
  - 2.5 kV

### Input Circuits
- Voltage and current input (selectable)
- Input resistance
  - 50 Ω
- Operation characteristics
  - 0...20 mA (max. 40 mA)

### Output Circuits
- 1 relay output
- Number of contacts
  - 1 SPDT contact, AgCdO
- Switching voltage
  - 250 V
- Switching current
  - ≤ 2 A
- Switching capacity
  - ≤ 500 VA/60 W

### LED Indications
- Power "ON" status
  - green
- Switching status
  - yellow

### 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)
  - Screw terminals for panel mounting
- Connection
  - Via flat terminals with self-lifting pressure plates
  - With wire sleeves
- Connection profile
  - ≤ 2 x 2.5 mm² or 2 x 1.5 mm²
- Degree of protection (IEC 60529/EN 60529)
  - IP20
- Operating temperature
  - -25...+60 °C