

## Monitoring current relay

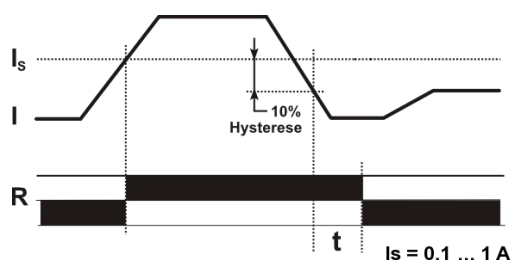
### 1. Device description

MRI05 relay controls DC or AC current connected to the terminals. Device can be set for current range from 0,1 A to 1 A. Measuring part is galvanic isolated from the current connection terminal. Relay has one double-throw output contact 16 A.

Terminal description:	Terminal placement:	Connection diagram:
<ol style="list-style-type: none"> <li>1 Supply voltage</li> <li>2 Terminals k(-), l(+) of measured current</li> <li>3 Supply voltage indication</li> <li>4 Output indication</li> <li>5 Control current <math>I_s</math> setting</li> <li>6 Time set</li> <li>7 Outputs</li> </ol>		

### 2. Function

If the set current level is exceeded, output relay will make connection. If the measured current level goes under the set level minus fix hysteresis 10%, output relay will disconnect. Hysteresis reduces relay bouncing at threshold limit of current values. Position OFF disables current measurement, output is closed and yellow LED is off. Contact no. 16 – 15 is closed.



### 3. Technical features

Parameter	Value
Supply voltage:	230 VAC
Supply terminals:	A1, A2
Current measuring terminals:	k (-), l (+)
Current measuring range:	0,1 ... 1 A
Time setting:	0 ... 15 min
Maximum load capability of current terminal:	max. 7 A
Power consumption:	max. 1,5 VA
Number of functions:	1
Supply voltage indication:	green LED
Output indication:	yellow LED
<b>Output parameters:</b>	
Number and type of contacts:	1x changeover contact
Nominal current:	16 A
Switching power:	max. AC 4000 VA
Trigger current:	30 A
Nominal voltage / max. switched voltage:	250 VAC / 440 VAC
Mechanical lifetime:	3 x 10 <sup>7</sup>
Electrical lifetime:	1 x 10 <sup>5</sup> 250 VAC, 16 A
<b>Others:</b>	
Working temperature:	-20 ... +55 °C
Storage temperature:	-40 ... +70 °C
Working position:	any
Mounting:	IEC 60715 (DIN 35)
Protection degree:	IP 40 on panel / IP 20 terminals
Electrical strength:	4 kV
Electrical strength of measuring/supply terminal:	4 kV
Input wire diameter with/without cavern:	max. 2x1,5mm <sup>2</sup> ; 1x2,5mm <sup>2</sup> / max. 2x1,5mm <sup>2</sup> ; 1x2,5mm <sup>2</sup>
Weight:	75 g
Dimensions:	90 x 18 x 65 mm
Standards:	IEC 60255-6, IEC 61010



#### Warning

*If measured current is over 1,5 A it can damage device!*