

Product Information

Monitoring Relay MR50



- Input standard signals 0/4..20 mA, 0/2..10 V DC
- Measuring range programmable
- Max. 4 alarm outputs
- Isolated analog output 0/4..20 mA, 0/2..10 V DC

Characteristics

The Monitoring Relay MR50 has inputs for industry standard signals 0/4..20 mA and 0/2..10 V DC. Measuring value and programmed unit are shown in the display. The integrated transmitter supply offers direct connection of loop powered sensors. Simple programming, up to 4 alarm outputs (SPDT) and optional available fully isolated free programmable analog output 0/4..20 mA; 0/2..10 V DC meets the demand for different applications.

Technical data

Power supply
 Supply voltage : 230 V AC ±10 %, 115 V AC ±10 %, or 24 V DC ±15 %
 Power consumption : max. 5 VA
 Operating temperature : -10..+55 °C
 CE-conformity : Norm IEC 61326 05/2004, IEC 61000-4-2/3/4/5/6/8/11, CISPR16-1/16-2

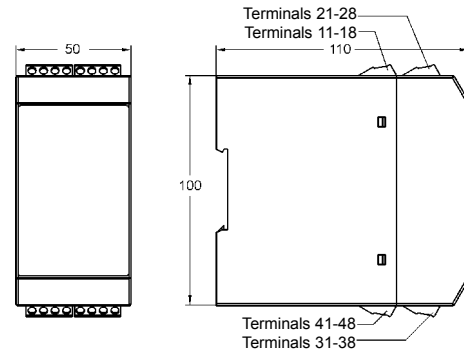
Input
 Ri : 0/4..20 mA; 0/2..10 V DC
 Ri : current 10 Ω, voltage 10 kΩ

Fault detection : break of wire
Accuracy : <0,1 %, ±1 Digit
Transmitter supply : 24 V DC max. 30mA

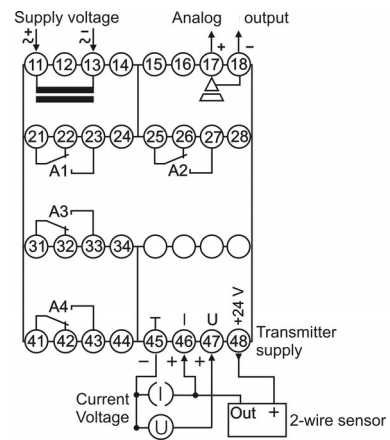
Outputs
 Relay SPDT : < 250 V AC < 250 VA < 2 A cosφ ≥ 0.3, < 300 V DC < 40 W < 2 A
 Analog output : 0/4..20 mA, burden ≤500 Ω; 0/2..10 V burden >500 Ω, isolated, output changes automatically (burden dependent)
Accuracy : 0.2 %; TK 0.01 %/K
Fault function at break of wire:
 → Analog output : 0 mA, < 3.6 mA or >21.5 mA
 → Alarm contact(s) : min. or max. programmable

Display : graphic LCD-display with 128 x 64 Pixel, and white back-light
Case : Polyamide (PA) 6.6, UL94V-0 acc. to DIN EN 60715:2001-09
Weight : approx. 450 g
Connection : screw terminals 0.14..2.5 mm² (AWG 26..14)
Protection class : case IP30, terminals IP20, BGV A3

Dimensions



Connection diagram



Ordering code

MR50 - - - - - -

1. Input	
1	standard signals 0/4..20 mA, 0/2..10 V DC, transmitter supply 24 V DC, max. 30 mA
2. Alarm output A1, A2	
2R	2 relays SPDT
3. Alarm output A3, A4	
00	not installed
2R	2 relays SPDT
4. Analog output	
00	not installed
AO	0/4..20 mA, 0/2..10 V DC
5. Supply voltage	
0	230 V AC, ± 10 % 50-60 Hz
1	115 V AC, ± 10 % 50-60 Hz
5	24 V DC, ± 15 %
6. Options	
00	without option