Monitoring Relay GS1000

- **1 or 2 adjustable limit values min/max selectable**
- **Measuring inputs for standard signals and Potentiometer**
- **True value output 0..10 V, 0..20 mA or 4..20 mA**

Characteristics

GS1000 limit value relays can be used for monitoring in process and automation systems. The multipurpose input allows controlling of all physical dimensions which can be converted to standard signal 0/4..20 mA, 0/2..10 V DC. An optional transmitter supply for 2-wire-transmitters (4...20 mA) will offer additional fields of application..

Technical data

Power supply

Supply voltage	: Uc ± 10 %
Frequency	: 47..63 Hz
Power consumption	: 4 VA
Operating temperature	: -10..+60 °C
CE-conformity	: EN 61326-1:2013 EN 60664-1:2007

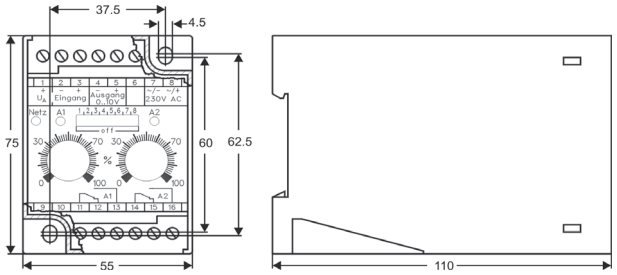
Input

Voltage	: Ri 4 kΩ/V, over-load max. 3-times
Current	: Ri 125 Ω, over-load max. 100 mA
Potentiometer	: reference voltage U_A = 2.5 V DC load max. 5 mA for potentiometer 1 kΩ..100 kΩ
Transmitter supply	: 2-wire sensor $U_A \approx$ 15 V DC
Switching hysteresis	: approx. 1 %
Scale accuracy	: 2 %
Repeatability	: 0.2 %

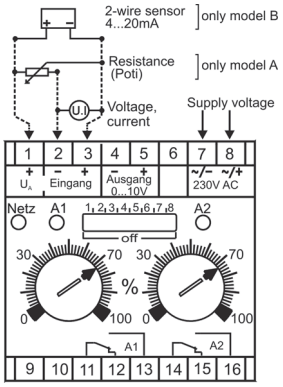
Output

Relay	: 250 V AC < 250 VA < 2 A 100 V DC < 50 W < 1 A
Voltage	: 0..10 V DC, max. 10 mA
Current (optional)	: 0..20 mA or 4..20 mA, burden max. 500 Ω
Accuracy	: 0.3 %
Case	: Polycarbonate 8020 UL94V-1
Weight	: approx. 400 g
Connection	: screw terminals with pressure plate max. 4mm²
Protection class	: case IP40, terminals IP20, acc. to BGV A3

Dimensions



Connection diagram



Ordering code

GS1000 - 1. - 2. - 3. - 4.

1.	**Limit outputs (relay SPDT)**	
	1	1 limit contact max. 250 V AC/2 A
	2	2 limit contacts max. 250 V AC/2 A
2.	**True value output**	
	1	0..10 V (max. 10 mA) standard
	2	0..20 mA burden max. 500 Ω
	3	4..20 mA burden max. 500 Ω
3.	**Supply voltage**	
	0	230 V ±10 % 50-60Hz
	5	20..28 V DC isolated
4.	**Input**	
	10	multipurpose device A input signal via DIP-switch configurable: 0..20 mA / 4..20 mA 0..2.5 V / 0..5 V / 0..10 V and Potentiometer
	20	multipurpose device B * transmitter supply approx. 15 V DC for 2 wire sensors 4..20 mA input signal via DIP-switch configurable: 0..20 mA / 4..20 mA 0..2.5 V / 0..5 V / 0..10 V

* Version B is not available with current output + 2 limit contacts