

Limit Switch

AD-MK 340 GVD

Description

The limit switch AD-MK 340 GVD compares the measuring value at the input with the preset values. If the measuring signal exceeds the set value, or is below it, the relevant output relay reacts according to the preset function. The standard signals (0/4–20mA, 0–10V) are possible as analogue input value without additional switch-over.

The limiting values must be set at the keys 0–99% at the front. The output functions 2max, 2min or 1 max/min as well as the resting or working principles of the output relays are also adjustable at the front. With operating mode 2max/2min, the hysteresis at both channels is approx. 1%. Input, outputs and the supply voltage are galvanically separated from each other.

Application

Monitoring and signalling of limiting values of analogue measuring signals such as through flow, height levels, temperature etc.



Special features

- Two limiting values, digital freely adjustable up/down keys at the front
- Indication of limiting values and relay condition via LED at the front
- 23 mm wide serial housing with connection terminals, which can be pulled off

Specification

Input current

| | |
|------------------|----------------------|
| measuring range | 0...20 mA; 4...20 mA |
| resolution | 9 Bit |
| input resistance | 25 Ohm |

Input voltage

| | |
|------------------|----------|
| measuring range | 0...10 V |
| resolution | 9 Bit |
| input resistance | 100 kOhm |

Output

| | |
|---------------------|---|
| contact type | change-over relay |
| switching voltage | max. 250 V, 50 Hz |
| switching current | max. 2 A |
| switching capacity | max. 100 VA |
| selectable function | normally open or normally closed 2 Max, 2 Min or 1 Max/Min |

Accuracy

| | |
|-----------------------|---------------|
| unit | better 1% |
| linearity error | < 0,2% |
| temperature influence | < 100 ppm / K |
| response time | < 20 ms |

Supply

| | |
|-------------------|------------------------------|
| supply voltage | 20...253 VDC or 50...253 VAC |
| power consumption | max. 1 W/2,5 VA |

Housing

| | |
|---------------------|---------------------------|
| dimension (WxHxD) | 23x110x128mm |
| type of protection | IP 20 |
| connection method | detachable terminal clamp |
| manner of fastening | DIN rail 35 mm (EN 50022) |
| weight | approx. 200 gr. |

Environmental conditions

| | |
|-----------------------|-------------|
| ambient temperature | 0...50°C |
| storage and transport | -10...+70°C |

EMC

| | |
|--|-------------------------|
| Product family standard | EN 61326 |
| Emitted interference | EN 55011, CISPR11 Cl. B |
| During checking, slight signal deviations are possible | |

Electrical safety requirements

| | |
|-------------------------|------------|
| Product family standard | EN 61010-1 |
|-------------------------|------------|

galvanic separation, test voltages

| | |
|---------------------|----------------------|
| input/output | 3,75 kV RMS (1 Min.) |
| signal/power supply | 4 kV RMS (1 Min.) |

protective systems

| | |
|--------------|---|
| input/output | over voltage and over current |
| power supply | over voltage, over current and over temperature |

Printed 11.07.2016. We reserve the right for technical changes



ADAMCZEWSKI
Elektronische Messtechnik GmbH

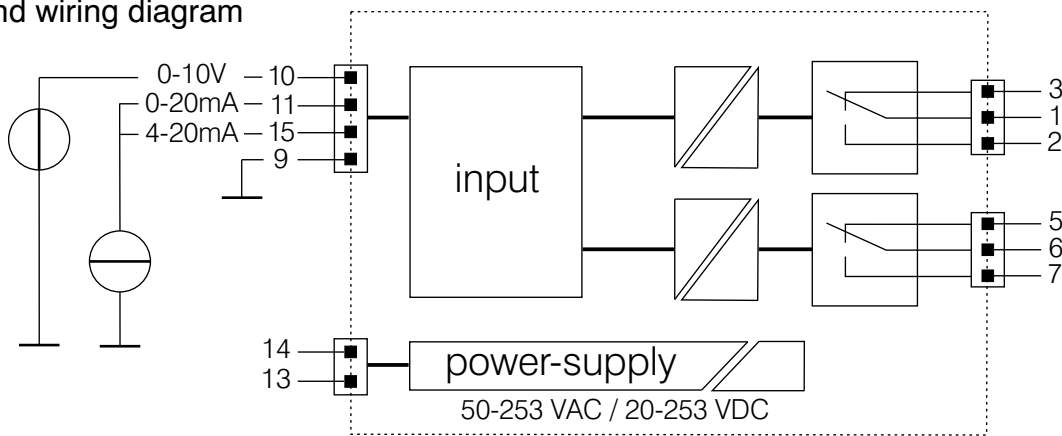
Felix-Wankel-Str. 13
Tel. +49 (0)7046-875
vertrieb@ad-messtechnik.de

74374 Zaberfeld
Fax +49 (0)7046-7678
www.adamczewski.com

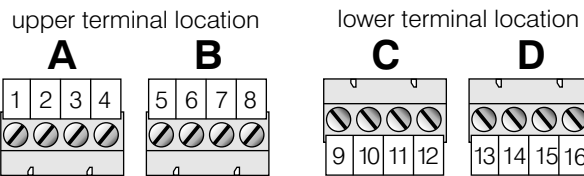
Limit Switch

AD-MK 340 GVD

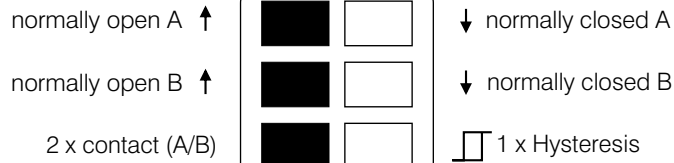
Block and wiring diagram



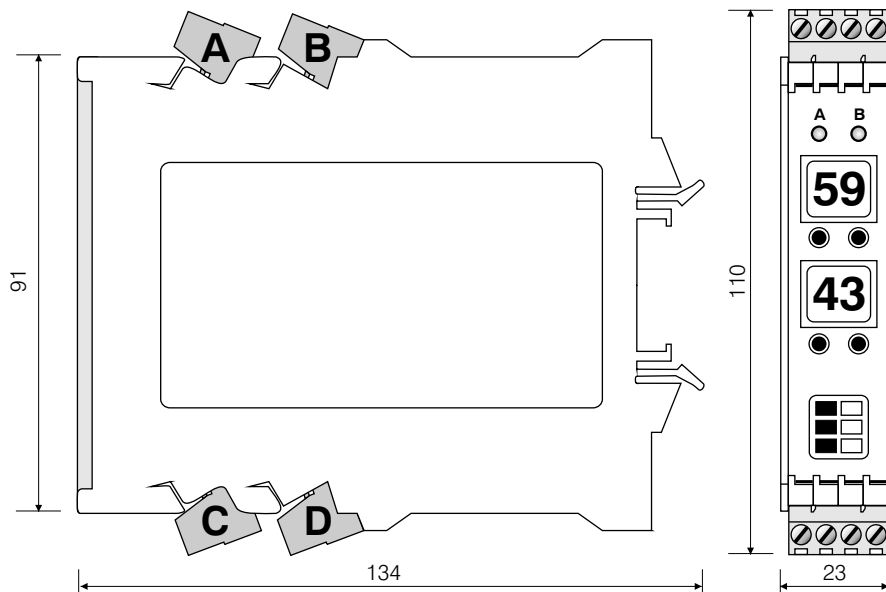
Terminal location



Functional DIP-switch



Dimension



Printed 11.07.2016. We reserve the right for technical changes



ADAMCZEWSKI
Elektronische Messtechnik GmbH

Felix-Wankel-Str. 13
Tel. +49 (0)7046-875
vertrieb@ad-messtechnik.de

74374 Zaberfeld
Fax +49 (0)7046-7678
www.adamczewski.com