Limit Switch

Limit Switch Provided With Transmitter Feeding Voltage

AD-SMK 340 GVD

Description

The limit switch AD-SMK 340 GVD compares the measuring value of a 2- or 3-wire-transmitter 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 (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 1max/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 sepa- rated from each other.

Application

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

Specific characteristics

- Transmitter feeding voltage.
- 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.

Business data

Order number	AD-SMK 340 GVD

Technical specifications

Input current	
Measuring range	4 ... 20 mA
Input resistance	25 Ohm
Input voltage	
Measuring range	0 ... 10 V
Input resistance	100 kOhm
Transmitter supply	
Open-circuit voltage	< 20 V
At 20 mA	> 18 V
Current limit	< 30 mA
Relay output	
Maximum switching load AC	250 V, 2 A
Maximum switching load DC	50 V, 2 A
Contact construction	changeover contact
Switching operations mechanical	10000000
At 230V/2A AC, cos(phi)=1	600000
At 230V/2A AC, cos(phi)=0,4	200000
At 24V/1 A DC	200000
Supply	
Voltage range AC	50 ... 253 V AC, 50/60 Hz
Nominal voltage AC	230 VAC
Voltage range DC	20 ... 253 V DC
Nominal voltage DC	24 V DC
Power consumption AC/DC	3,5 VA / 1,6W
Transmission behaviour	
Accuracy	+/- 1 % of full scale
Temperature influence	100 ppm/K
Response time	~ 20 ms
Housing	
Dimensions (WxHxD)	23x110x134 mm
Type of protection	IP 20
Connection method	detachable terminal clamp
Terminals, wire cross section	2,5 mm² flex wire / 4 mm² one wire
Bolting torque terminals	0,5 Nm
Weight	~ 200 g
Manner of fastening	35 mm DIN rail 35mm
Protection circuits	
Input	electrical surge protection
Power supply	electrical surge and reverse current protection
Electrical safety requirements	
Product family standard	EN 61010-1
Environmental conditions	
Ambient temperature	0 ... 50 °C
Storage and transport	-10 ... 70 °C (no thawing)
Galvanic isolation, test voltages	
Input / output	3,75 kV (1 min.)
Signal / supply unit	4 kV (1 min.)

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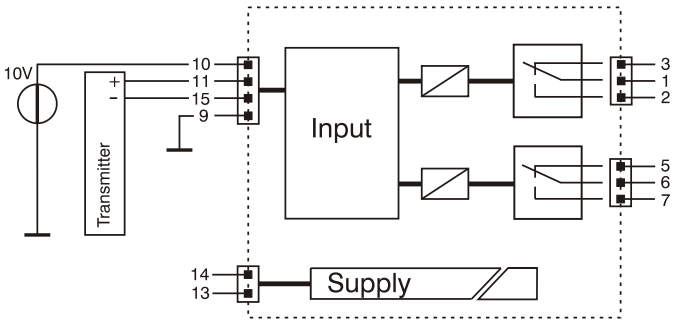
Technical specifications

EMC

Product family standard	EN 61326 [1)]
Emitted interference	EN 55011, CISPR11 Cl. B

[1)]During electromagnetic disturbance minor changes in output signal are possible.

Block and wiring diagram



Dimensions