Voltage Monitor E-1079-... for DC

Description

The E-T-A Voltage Monitor E-1079 is designed to monitor DC voltages. The MAX and/or MIN limit value can be directly set by means of the digital switches provided on the front of the housing. Voltage falling below, or rising above, the preset limit causes the integral relay (change-over contact) to de-energise.
The switching delay to compensate for short duration voltage fluctuations may be set beween 0.2 and 30 s by means of the potentiometer. The monitors operate on the closed-circuit principle, i.e. voltage failure has the same effect as an incorrect voltage level.
LEDs provide indication of relay status, operating voltage and adjustment errors (LEDs extinguish when there is a fault).

E-1079-...

Typical applications

- Monitoring of limit values for standard signals (e.g. 0...10 V)
- Monitoring of operating voltages

Features

- Digital limit value preselection
- Permanent limit value indication
- Adjustable response delay

Technical data

Voltage ratings	AC 115 V 50/60 Hz (90...135 V) AC 230 V 50/60 Hz (200...244V)
Power consumption	2 VA
Measuring ranges	DC 199 mV Ri = 20 kΩ DC 1.99 V Ri = 100 kΩ DC 19.9 V Ri = 100 kΩ
Accuracy	1% ± 2 digits
Hysteresis	1 digit
Min/Max difference	5 digits (MIN/MAX version only)
Response delay	may be set between 0.2 and 30 s
Temperature range	0 ... +50 °C (without condensation)
Relay output	AC 250 V/5 A change-over contact DC 30 V/5 A
Degree of protection	IP 50 housing IP 20 terminals
Connection	2x2.5 mm² screw terminals
Mounting	35 mm rail to DIN EN 50022
Dimensions	45 x 74 x 125 mm (W x H x D)

Other measuring ranges and screw-less connectors to Wago licence are available to special order.

Ordering information

Type No.		
E-1079	Voltage Monitor	
Function		
31	MAX limit value	
41	MIN limit value	
51	MIN/MAX limit value	
	Voltage rating (supply)	
	AC 115 V	(90...135 V)
	AC 230 V	(200...244 V)
		Measuring range
		DC 199 mV
		DC 1.99 V
		DC 19.9 V

E-1079 - 31 - AC - [ ] ordering example

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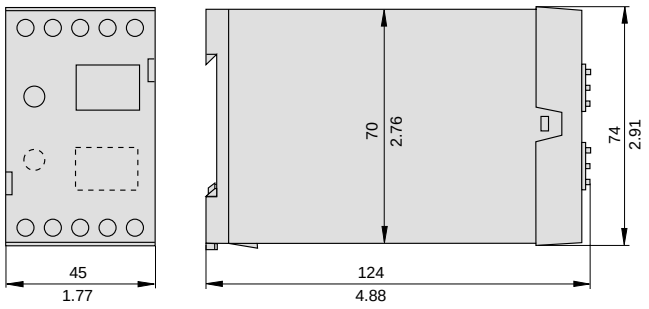
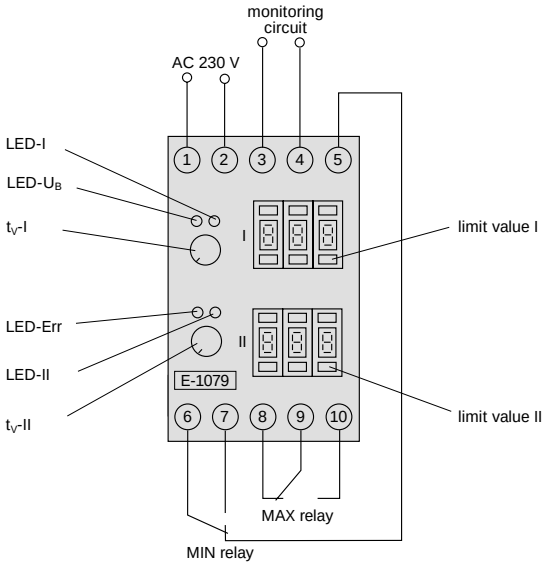
Dimensions



This is a metric design and millimeter dimensions take precedence (mm / inch)

Connection diagram



Contacts shown with the supply disconnected.

Function of digit switches and relay terminal assignment

Version	Switches		Outputs (terminals)		Signalisation	
	limit value I	limit value II	MAX relay	MIN relay	LED I	LED II
E-1079-31 Max Voltage Monitor	MAX	N/A	8 / 9 / 10	N/A	extinguishes when MAX limit is exceeded	
E-1079-41 MIN Voltage Monitor	MIN	N/A	N/A	5 / 6 / 7	extinguishes when voltage falls below MIN limit	
E-1079-51 MIN-MAX Voltage Monitor	MAX	MIN	8 / 9 / 10	5 / 6 / 7	extinguishes when MAX limit is exceeded	extinguishes when voltage falls below MIN limit

t_v-I response delay of limit value I, may be set between 0.2 and 30 s.

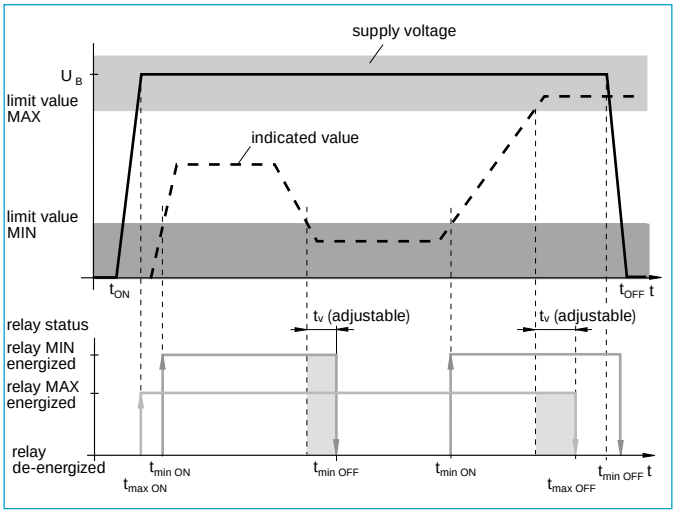
LED-U_B lights when operating voltage is applied

only with version E-1079-51:

t_v-II response delay of limit value II, may be set between 0.2 and 30 s.

LED-Err extinguishes upon adjustment error limit value I < (limit value II + 5 digits)

Typical time / voltage characteristics



All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.