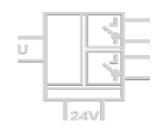


# **Voltage Measuring Contactor** IS 3400

Monitoring of AC/DC Voltage



The Voltage Measuring Contactor IS 3400 is used to monitor limit values of AC/DC voltages.

High reliability and Protective Separation are essential characteristics that contribute to fault-free equipment operation.

Two switch channels can be separately configured. The switch point and the switch hysteresis can each be adjusted by means of their own 12-turn potentiometer located on the unit's front panel. The switch state is indicated by a yellow LED.

The direction of effect and the mode of operation can be switched by means of DIP switch settings. Both switch outputs can be set up as either MIN or MAX alarms. The relay contacts switch high power loads either as N.O. or N.C. contacts.

Protective Separation and the 24 V AC/DC power supply • High reliability and long-term stability **IS** 3400 universally applicable measurement and industrial applications, as well as for building automation.

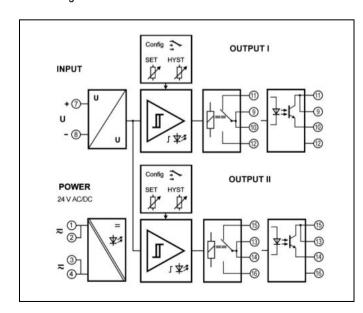
- Easy selection of operating mode MIN / MAX alarm switch selectable, switch point and hysteresis adjustable on front panel
- Relay with high power handling or wearless optocoupler switching output
- True 4-port separation Protection against erroneous measurements due to parasitic voltages or ground loops
- Switch state indicated by LED Easy to adjust the set point and hysteresis
- Protective Separation acc. to EN 50178 Protects service personnel and downstream devices against impermissibly high voltage
- all No maintenance costs
  - Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications
  - 5 Years Warranty

Defects occurring within 5 years from delivery date shall be remedied free of charge at our plant (carriage and insurance paid by sender)

## Block diagram

Tel.: 03303 / 50 40 66

Fax.: 03303 / 50 40 68



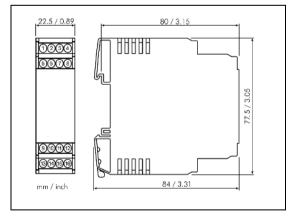


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# **Technical Data**

Input	
Input signal	Measuring ranges: 24 V, 48 V, 100 V, 120 V, 250 V, 500 V switchable
	Unipolar, bipolar or sinusoidal alternating current voltages, f = 10 500 Hz
Input resistance	1 ΜΩ
Overload	Max. 600 V continuous
Set point range	0 100 % of input range with 12-turn potentiometer , MIN/MAX-Alarm switchable
Hysteresis	0 60 % of final value with 12-turn potentiometer
Output	
IS 3400: Contact type	2 SPDT relays, mode of operation switchable
Relay Switching capability AC n	nax. 250 V / 6 A 1500 VA
Switching capability DC r	nax 250 V / 0,2 A 115 V / 0,3 A 30 V / 6 A
<u> </u>	Recommended minimum load 300 mW / 5 V / 5 mA
IS 3480: Contact type	2 optocoupler transistor switches, mode of operation switchable
Optocoupler Switching capability	30 V DC, max. 50 mA
Switch state indicator	Yellow LED
Response time	DC Input: approx. 20 ms
General Data	
Set point error	< 0.2 % full scale
Temperature coefficient <sup>1)</sup>	< 150 ppm/K
Test voltage	4 kV AC, 50 Hz, 1 min. input against power supply against both switching outputs
	2.5 kV AC, 50 Hz, 1 min. switching output I against switching output II
Working voltage (Basic Insulation) <sup>2)</sup>	600 V AC/DC for overvoltage category III and pollution degree 2 acc. to EN 50178 between input, power supply and switching outputs. Up to 300 V AC/D between both switching outputs
Protection against electrical shock <sup>2)</sup>	Protective separation according to EN 50178 by reinforced insulation up to 300 V AC/DC for
	overvoltage category II and pollution degree 2 between input, power supply and switching outputs
Power supply	24 V AC/DC, ± 15 % AC 48 62 Hz, approx. 2 VA
	DC approx. 1 W
Ambient temperature	Operation - 20 to + 60 °C (- 4 to + 140 °F)
	Transport and storage $-35$ to $+85$ °C $(-31$ to $+185$ °F)
EMC <sup>3)</sup>	EN 61326 -1
Construction	22.5 mm (0.89") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715
Weight	Арргох. 100 g

#### **Dimensions**



Subject to change!

## **Product line**

Device	Order No.
Voltage Measuring Contactor with relay contacts	IS 3400
Voltage Measuring Contactor with transistor switches	IS 3480

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<sup>1)</sup> Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C
2) For applications with high working voltages, ensure there is sufficient spacing or isolation from neighboring devices and protection against electric shocks.
3) Minor deviations possible during interference