Monitoring Technique

INFOMASTER Fault Annunciator System AD 5960

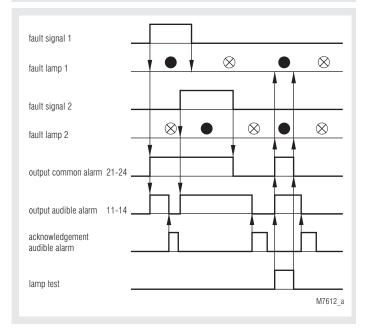
Translation of the original instructions





- According to IEC/EN 60255, DIN VDE 0435-303
- Common alarm annunciator for 12 signals
- 1 relay for common signal and horn
- Inputs up to AC/DC 230 V
- 1 connection for acknowledgement button of horn and lamp test
- Width: 45 mm

Function Diagram



Approvals and Markings



Application

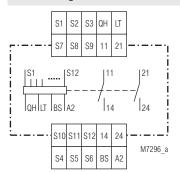
Monitoring of industrial plants and buildings

Notes

The inputs and the lamp test input "LT" are to be controlled with the same phase voltage. In case of connection of different phases the fault annunciator can be destroyed. The fault annunciator AD 5960 is not suitable for the use of lamps with transformers. If the fault annunciator lamps should be controlled with another voltage than that of the inputs, we recommend our fault annunciators AN 5969 or EP 9969, which have relay outputs.

By shock or vibration during transportation the relay contacts may switch to the wrong state. This is typical when bistable relays are used. By connecting nominal voltage to one of the inputs the contacts are brought into right state to achieve a safe switching, the inputs \mathbf{S}_1 ... \mathbf{S}_{12} have to be activated at least 60 ms.

Circuit Diagram



Technical Data

Input

Nominal voltage U_N: AC/DC 24, 42, 110, 230 V

Voltage range: 0.8 ... 1.1 U_N Nominal frequency: 50 / 60 Hz

Fault signal current per

input

Voltage AC/DC: 24 42 110 230 V Current Î: 440 280 180 150 mA

Input current load* at input of lamp test

Voltage AC/DC: 24 42 110 230 V Current Î: 5.3 3.4 2.2 1.8 A Current shape see caracteristic

* without connection of the external

signal lamp Output

Contacts: 1 NO contact each for common alarm

and audible alarm

Operate time of

Relay "Horn": Approx. 20 ms Recovery time "Horn": Approx. 5 s

(min. necessary time between the occurance of a fault and the

acknowledgement of the audible alarm)

Operate time of common alarm relay:

Actuation time for lamp test input:

≤ 1 s ≥ 2 s

AC 250 V / 5 A Switching capacity:

1 A per external signal lamp, Loading: however totally max. 5 A

Thermal current I,:

General Data

Operating mode: Continuous operation Temperature range: - 20 ... + 60°C

Clearance and creepage distances

Rated impulse voltage /

pollution degree: 4 kV / 2 IEC 60664-1

EMC

HF-irradiation: 10 V / m IEC/EN 61000-4-3 Fast transients: 2 kV IEC/EN 61000-4-4

Surge voltages Between

Wires for power supply: Between wire and ground: Interference suppression:

2 kV IEC/EN 61000-4-5 4 kV IEC/EN 61000-4-5 Limit value class B EN 55011

Degree of protection

Housing: IP 40 IEC/EN 60529 IP 20 Terminals: IEC/EN 60529 Housing: Thermoplast with V0-behaviour

according to UL subject 94

Vibration resistance: Amplitude 0.35 mm

frequency 10...55HzIEC/EN 60068-2-6 20 / 060 / 04 Climate resistance: IEC/EN 60068-1

Terminal designation: EN 50005

Wire connection: 2 x 2.5 mm² solid or

2 x 1.5 mm² stranded wire with sleeve

DIN 46228-1/-2/-3/-4 Flat terminal with self-lifting

IEC/EN 60999-1 clamping piece

DIN rail IEC/EN 60715 Mounting:

Weight: 200 g

Dimensions

Wire fixing:

Width x height x depth: 45 x 77 x 127 mm

Standard Type

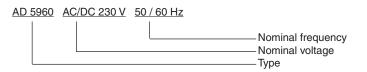
AD 5960 AC/DC 230 V 50/60 Hz Article number: 0028134

1 NO contact each Output:

for common alarm and audible alarm AC/DC 230 V Auxiliary voltage U_H:

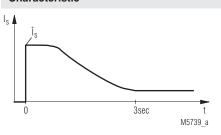
AC/DC 230 V Inputs:

Ordering Example



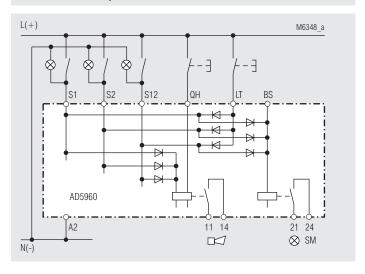
stock item

Characteristic



Current curve of the inputs and of the lamp test inputs

Connection Example



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