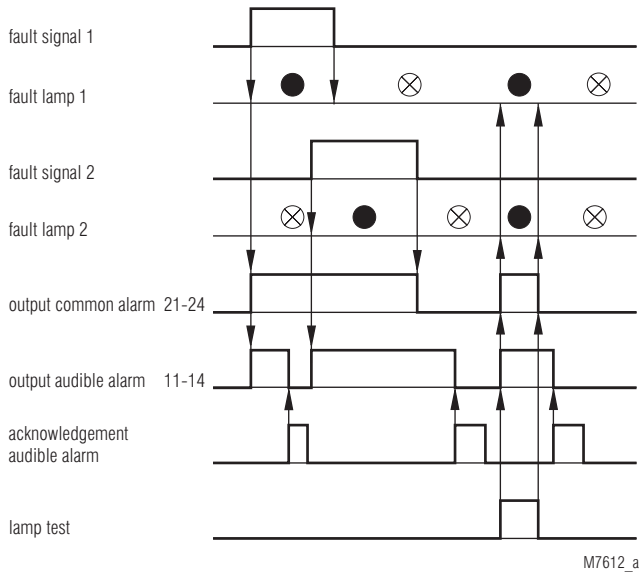
INFOMASTER
Fault Annunciator System
AD 5960

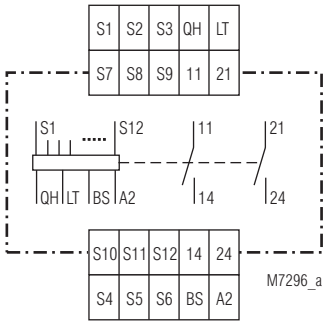
0231218

- According to IEC/EN 60 255, 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



Circuit Diagram



Approvals and Marking

CE

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 S_1 ... S_{12} have to be activated at least 60 ms.

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 $\hat{I}_s$:	440 280 180 150 mA
Input current load* at input of lamp test	
Voltage AC/DC:	24 42 110 230 V
Current $\hat{I}$:	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:	≤ 1 s
Actuation time for lamp test input:	≥ 2 s
Switching capacity:	AC 250 V / 5 A
Loading:	1 A per external signal lamp, however totally max. 5 A
Thermal current I_{th}:	8 A

General Data

Operating mode:	Continuous operation	
Temperature range:	- 20 ... + 60°C	
Clearance and creepage distances		
rated impuls voltage / pollution degree:	4 kV / 2	IEC 60 664-1
EMC		
HF-irradiation:	10 V / m	IEC/EN 61 000-4-3
Fast transients:	2 kV	IEC/EN 61 000-4-4
Surge voltages between		
wires for power supply:	2 kV	IEC/EN 61 000-4-5
between wire and ground:	4 kV	IEC/EN 61 000-4-5
Interference suppression:	Limit value class B	EN 55 011
Degree of protection		
Housing:	IP 40	IEC/EN 60 529
Terminals:	IP 20	IEC/EN 60 529
Housing:	Thermoplast with V0-behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10...55HzIEC/EN 60 068-2-6	
Climate resistance:	20 / 060 / 04	IEC/EN 60 068-1
Terminal designation:	EN 50 005	
Wire connection:	2 x 2.5 mm² solid or 2 x 1.5 mm² stranded wire with sleeve DIN 46 228-1/-2/-3/-4	
Wire fixing:	Flat terminal with self-lifting clamping piece	IEC/EN 60 999-1
Mounting:	DIN rail	IEC/EN 60 715
Weight:	200 g	

Dimensions

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

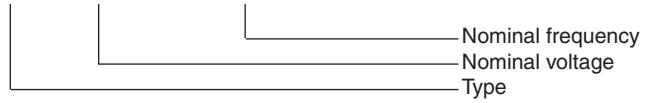
Standard Type

AD 5960 AC/DC 230 V 50/60 Hz

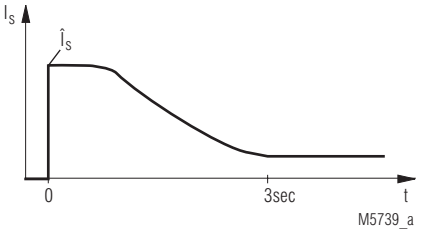
Article number:	0028134	stock item
• Output:	1 NO contact each for common alarm and audible alarm	
• Auxiliary voltage U_H:	AC/DC 230 V	
• Inputs:	AC/DC 230 V	

Ordering Example

AD 5960 AC/DC 230 V 50 / 60 Hz



Characteristic



Current curve of the inputs and of the lamp test inputs

Connection Example