

Monitoring Technique

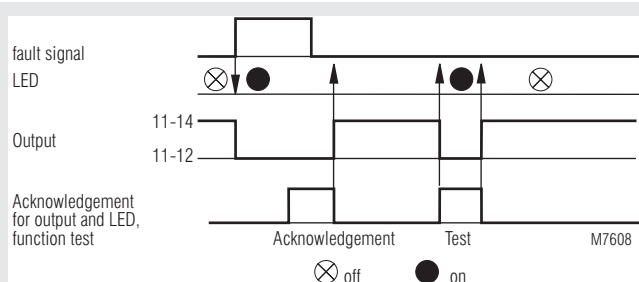
INFOMASTER Fault Annunciator System EH 9997

Translation
of the original instructions



- Common alarm annunciator for 6 signals
- Optionally for up to 8 signals
- Closed circuit operation
- Optionally with open circuit operation
- With LED for each fault signal
- Inputs up to AC/DC 300 V
- With relay output for common signal
- Pushbutton for fault signal acknowledgement and function test
- Front surface 96 x 96 mm

Function Diagram



Approvals and Markings



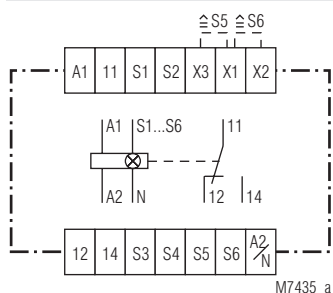
Applications

Monitoring of industrial plants and buildings

Indicators

LEDs for each fault signal
Continuous light when fault signal applied

Circuit Diagram



Notes

It must be observed, that the fault inputs are not separated from the supply voltage (common terminal A2/N). In case of DC-signals the minus-pole always to be connected to A2.
By removing the bridges X1/X3 - X1/X2 on the backside, the function of the fault signal can be changed, so that the faults 5 and 6 will only be indicated optically and the output relay will not be influenced.

The EH 9997 will be supplied unlabeled.
Individual lable on demand.

EH 9997.11

Connection Terminals

Terminal designation	Signal description
A1, A2/N	Auxiliary voltage AC or DC
S1, S2, S3, S4, S5, S6	Fault signal inputs
X1, X2, X3	Control inputs
11, 12, 14	Relay contact

Technical Data

Input

Inputs: Between AC/DC 12 and 300 V in 3 sectors;
AC/DC 12 ... 70 V, AC/DC 70 ... 160 V, AC/DC 160 ... 300 V

Nominal voltage U_N : AC/DC 24, 42, 48 V
AC 110 ... 127, 220 ... 240 V

Special voltage:

External resistor

DC 60 V:	820 Ω	ZWS 8 SL
DC 110 V:	2.2 k Ω	ZWS 20 SL
DC 220 V:	4.7 k Ω	ZWS 20 SL

Voltage range:

0.8 ... 1.1 U_N

Nominal consumption: AC 230 V, 9 VA

DC 24	60	110	220 V
1	2.5	5	10 W

Nominal frequency: 50 / 60 Hz

Output

Contacts

EH 9997.11: 1 changeover contact

Thermal current I_{th} : 6 A

Switching capacity

To AC 15

NO contact: 2 A / 230 V IEC/EN 60947-5-1

NC contact: 1 A / 230 V IEC/EN 60947-5-1

Electrical life IEC/EN 60947-5-1

To AC 15 at 3 A, AC 230 V: 0.1 x 10⁶ switching cycles

Short circuit strength

max. fuse rating: 6 A gG / gL IEC/EN 60947-5-1

Mechanical life: > 30 x 10⁶ switching cycles

General Data

Operating mode: Continuous operation

Temperature range:

Operation: - 20 ... + 60 °C

Storage: - 20 ... + 60 °C

Altitude: \leq 2000 m

Clearance and creepage distances

Rated impulse voltage / pollution degree: 4 kV / 2 IEC 60664-1

EMC

Electrostatic discharge: 8 kV (air) IEC/EN 61000-4-2

HF-irradiation

80 MHz ... 2,7 GHz: 10 V / m IEC/EN 61000-4-3

Fast transients: 4 kV IEC/EN 61000-4-4

Surge voltages

Between

wires for power supply: 2 kV IEC/EN 61000-4-5

Between wire and ground: 4 kV IEC/EN 61000-4-5

HF-wire guided: 10 V IEC/EN 61000-4-6

Interference suppression: Limit value class B EN 55011

Degree of protection

Housing: IP 40 IEC/EN 60529

Terminals: IP 20 IEC/EN 60529

Housing

Thermoplast with V0 behaviour

according to UL subject 94

Vibration resistance: Amplitude 0.35 mm, frequency 10 ... 55 Hz IEC/EN 60068-2-6

Climate resistance: Humid heat IEC/EN 60068-2-30

EN 50005

Terminal designation: 2 x 2.5 mm² solid or

2 x 1.5 mm² stranded wire with sleeve

DIN 46228-1/-2/-3/-4

Wire fixing: Flat terminals with self lifting

clamping piece IEC/EN 60999-1

Stripping length: 10 mm

Fixing torque: 0.8 Nm

Mounting: 2 clamps with screws

Weight: 300 g

Dimensions

Width x height x depth: 96 x 96 x 129 mm

Front panel cut-out: Diameter 91⁺¹ mm

Standard Type

EH 9997.11 AC 220 ... 240 V 50/60 Hz AC/DC 160 ... 300 V

Article number: 0013214

• Output: 1 changeover contact

• Nominal voltage U_N : AC 220 ... 240 V

• Inputs: AC/DC 160 ... 300 V

Variant

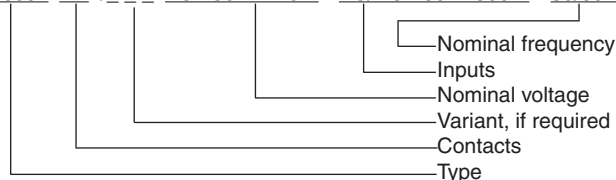
EH 9997/013: During function test, common signal will not be operated

EH 9997/074: Open circuit operation

EH 9997/075: 8 signals; all stored, indicated and switching common output

Ordering example for variants

EH 9997 .11 / - - - AC 230 ... 240 V AC/DC 160 ... 300 V 50/60 Hz



Connection Examples

