Monitoring Technique

INFOMASTER Fault Annunciator System EP 5966, EP 5967

Translation of the original instructions



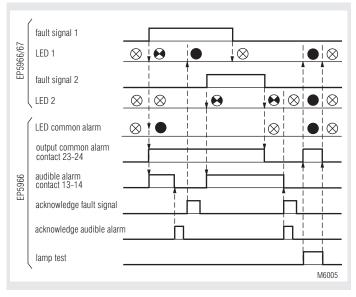


- New fault annunciation with single frequency flashlight according to DIN 19235
- Expandable from 16 up to 160 inputs
- In 2 groups of 8 inputs selectable:
 - Open circuit operation
 - Closed circuit operation
- Input voltage up to max. AC/DC 240 V
- Delayed inputs
- · Exchangable front for individual scale
- Removable terminals
- Flush mounting
- Frame 72 x 144 mm

EP 5966:

- 16 inputs in control unit
- Output relay for common signal and audible alarm
- Built in and external connected pushbuttons for lamp test (LT), acknowledgement of horn (QH) and of alarm (QS)
- Extension module with 16 inputs

Function Diagram



Approvals and Markings



Applications

Monitoring of industrial plants and buildings

Function

The unit EP 5966 controls the system and includes the common alarm output for all connected extension modules EP 5967.

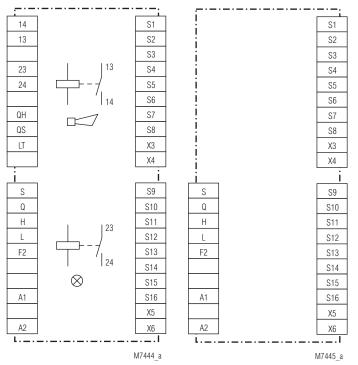
For audible alarm as well as for common alarm 2 relay outputs (NO) are available. The acknowledgement (QH and QS), as well as the lamp test (LT) can be effected through built in and external pushbuttons. The pushbutton lamp test (LT) is for the checking of the LED's in the control unit and the supsequent extension modules. The associated common alarm output contact 23-24 will be closed.

On EP 5966 and 5967 open circuit operation or closed circuit operation can be selected by bridging terminals X3/X4 or X5/X6 for 2 groups of 8 inputs. To avoid unnecessary fault signalling an operate delay of 1 s, 3 s or 10 s to the inputs is available.

The fault annunciator lamps can be marked by the customer on an attached label. Spare labels for EP 5966 and EP 5967 are available.

Extension modules can be mounted in neighbour cabinets. The distances of the panels should not be bigger than 10 m. In this case the connection cable must be screened. The screen has to be grounded on both sides.

Circuit Diagrams



Indication

One LED for each signal

EP 5966 with additional LED for common alarm

Notes

The inputs for the control signals as well as the inputs for programming (open circuit / closed circuit) are **not** protected against false connection to mains voltage.

The inputs are not galvanic separated from the supply voltage. At DC units 0 V must always be connected to A2.

When configured for NC signal inputs, the inputs not used, must be connected to high level.

EP 5966

Technical Data

Input

Auxiliary voltage U_H (A1, A2): AC 24, 42, 110, 127, 230 V

DC 24 V

Special voltages1): EP 5966 EP 5967 330 Ω / 8 W DC 48 V: $270 \Omega / 8 W$ DC 60 V: 390 Ω / 8 W $510 \Omega / 8 W$ DC 110 V: $1.0 \text{ k}\Omega/20 \text{ W}$ $1.2 k\Omega / 20 W$ $1.5 \text{ k}\Omega$ / 20 WDC 127 V: $1.2 k\Omega / 20 W$ DC 220 V: $2.4 \text{ k}\Omega$ / 35 W $2.7 \text{ k}\Omega$ / 35 W

1) Special voltages with series dropresistor (5%) on terminal A1. The fault annunciators are made for the special voltage and cannot be adapted to other voltages by changing series resistors.

Voltage range: 0.8 ... 1.1 U_x

Nominal consumptions

EP 5966: Approx. 5 VA EP 5967: Approx. 5 VA Nominal frequency: 50 / 60 Hz

Min. time for input signal: ≥ 100 ms + operate delay

Min. time for

acknowlegement: ≥ 200 ms Input voltage (S1 ... S16): AC/DC 24 ... 60 V AC/DC 110 ... 240 V

 $AC/DC 12 ... 30 V (only at U_{H} = DC 12 V)$

Output

Operate delay t_v: 1 s, 3 s, 10 s Thermal current I..: 3 A

Switching capacity

To AC 15: 3 A; AC 230 V IEC/EN 60947-5-1 Electrical life IEC/EN 60947-5-1

To AC 15 at 3 A, AC 230 V: 5 x 105 switching cycles

General Data

Operating mode: Continuous operation Temperature range: - 20 ... + 50°C

Clearance and creepage

distances

Rated impulse voltage /

pollution degree: 4 kV / 2 IEC 60664-1 EMC

Electrostatic discharge: IEC/EN 61000-4-2 4 kV (air) HF-irradiation: 10 V / m IEC/EN 61000-4-3 Fast transients: IEC/EN 61000-4-4 2 kV

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 Limit value class B EN 55011 Interference suppression:

Degree of protection

Housing: IP 40 IEC/EN 60529 IP 20 Terminals: IFC/FN 60529 Thermoplastic with V0-behaviour

Housing:

according to UL subject 94

Vibration resistance: Amplitude 0.35 mm IEC/EN 60068-2-6

frequency 10 ... 55 Hz

Climate resistance: 20 / 050 / 04 IEC/EN 60068-1 2 x 1.5 mm² solid DIN 46228-1/-2/-3/-4 Wire connection:

1 x 1.5 mm² or 2 x 0.75 mm² stranded wire with sleeve

DIN 46228-1/-2/-3/-4 Wire fixing: Box terminals with self-lifting wire

protection, removable

Mounting: Flush mounting

Weight

EP 5966: 520 g EP 5967: Approx. 480 g

Dimensions

Width x heigth x depth: 72 x 144 x 134 mm 66+0.7 x 138+1 mm Front panel cut-out:

Standard Types

EP 5966 AC/DC 24 ... 60 V U_H DC 24 V 1 s Article number: 0041660 Input voltage: AC/DC 24 ... 60 V Auxiliary voltage U_µ: DC 24 V

 Operate delay: 1 s Frame: 72 x 144 mm

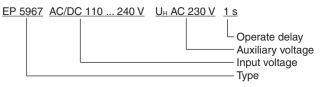
EP 5967 AC/DC 24 ... 60 V U_H DC 24 V 1 s Article number: 0041662 Input voltage: AC/DC 24 ... 60 V

Auxiliary voltage U_H: DC 24 V Operate delay: 1 s

Frame: 72 x 144 mm

Ordering examples





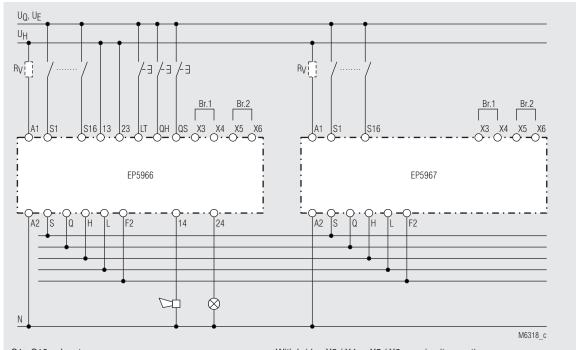
Accessories

Spare indication label: EP 5966-0-1, Art.-No.: 0048909

EP 5967-0-1, Art.-No.: 0050771 Spare transparent front sheet: EP 5966-10, Art.-No.: 0048738

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Connection Example



Inputs Lamp test

S1 - S16 LT QH QS Lamp test
Acknowledge audible alarm
Acknowledge fault signal
Relay contact audible alarm
Relay contact common alarm
Control voltage of the acknowledge inputs
Control voltage of the inputs 13/14 23/24 UQ UE

With bridge X3 / X4 or X5 / X6 n.o. circuit operation Without bridge X3 / X4 or X5 / X6 n.c. circuit operation

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