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Littelfuse M1000.0050

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Alarm MonitoringMonitoring

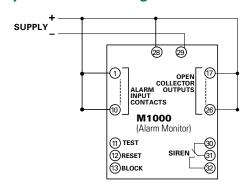


M1000 SERIES

Alarm Monitor CE



Simplified Circuit Diagram



Features & Benefits

FEATURES	BENEFITS	
10 configurable digital inputs	Supports both NO and NC input contacts	
11 open collector outputs	Allows external control and remote indication	
1 siren relay output	Direct connection of alarm siren	
Special indication of first alarm	Provides clear alarm overview in larger systems	
Multiple units can be connected as one system	Modular and scalable solution	
Voltage and insulation monitoring	Replaces voltage and insulation monitoring relay on the DC system	
Dimming of LEDs	Suitable for bridge consoles	
Type-approved by marine classification societies	Applicable in harsh environments	
Configuration by DIP switches or PC	Easy installation and configuration	
RS485 Modbus RTU	Communication with HMI and SCADA systems	

Ordering Information

ORDERING NUMBER	CONTROL POWER	FUNCTION
M1000.0040	48-110 Vdc	IP54 front
M1000.0080	12-24 Vdc	IP54 front
M1000.0220	12-24 Vdc	Internal siren, IP54 at front

Description

The M1000 is an alarm panel with 10 digital inputs. Inputs from a dry contact (normally open [NO] or normally closed [NC]) will cause the corresponding LED to flash. Simultaneously a common alarm output and a siren output will be activated as well as an individual output. The unit has separate indications of first alarm, following alarms and acknowledged alarms. It also has dedicated inputs for remote reset and blocking. The unit can be configured for cable monitoring and monitoring of its own supply and insulation level.

Multiple M1000 units can be interconnected to form a large scale alarm system. In this situation functions are available for synchronizing the flashing of the LEDs and enabling global indication of first alarm for all connected units. Alarm related parameters like time delays, reset functions and other features can be configured through 18 programming switches. The M1000 can also be configured via the RS232 interface. A standard ANSI/VT100 terminal is used as programming tool. The M1000 is equipped with a 2-wire RS485 interface supporting MODBUS-RTU communication.

Specifications

Voltage Supply 12-24 Vdc-30%/+30% (8-32 Vdc) 48-110 Vdc-30%/+40% (33-155 Vdc)

Max. Power

Consumption 180 mA

Ambient Temp. -10°C to $+70^{\circ}\text{C}$ (also available for -40°C to $+70^{\circ}\text{C}$)

Siren Relay Contact 220 Vac/2 A; 30 Vdc/2 A, 30 W Output Max. 150 mA per channel

Resistance in

Sensing Cable Max. 1000 W

Insulation Monitor 25 kW±8 kW (50 kW±10 kW for M1000-11-XXC)

 $\label{eq:limbulse} \textbf{Impulse Test} \hspace{1.5cm} 4.5 \text{ kV 1/50 } \mu \text{sec.}$

EMC CE according to EN50081-1, EN50082-1, EN50081-2. EN50082-2 and EN61000-2-6

Programming 16 dip-switches or via RS232 interface

Communication RS485 interface

Weight 0.4 kg

Dimensions H 144 mm (5.7"); **W** 144 mm (5.7");

D 35 mm (1.4")

Panel Cut-out H 138 mm (5.4"); **W** 138 mm (5.4")

Protection Degree

at Front IP54 (see Type Description)