Indicator Light

AD-LM 12 FE-Vario

AD-LMB 12 FE-Vario

Description

The signal/fault indicator AD-LM 12 FE-Vario, for mounting at the front of the control panel, informs with 12 multicolour leds about errors or operating conditions with glowing or blinking. Because of the multicolour leds, it`s not necessary to change the leds for changing the colour. So it`s very easy to change the technical appliance. The AD-LM 12 Vario can catch and save short pulses at the inputs, and for resetting its possible to connect external buttons. The device comes with 24 independet inputs which are easy to allot to one or more leds. Its possible to generate a colour- change by changing the input. A keypress on the touch key at the front of the device, generates a light test for all leds (all leds white). The AD-LM 12 Vario has a RS485 bus interface, which can used for the configuration over the AD- Studio (PC). All messages can be labelled with the aid of inserted strips (i.e. paper, foil etc.). This signal/fault indicator is also available with no physical inputs as a bus version (AD-12 Vario LMB). This can be controlled by the remote terminal block AD-AB 32 or by an external master.

Application

Indicate signal/fault status of machines or plants.

Specific characteristics

- detachable terminal clamps
- multicolour leds
- configuration by PC
- 24 independent inputs
- short-circuit proof feeding voltage
- external terminal- block for hat rail available

Business data

Order number

AD-LM 12 FE-Vario	standard version with physical inputs
AD-LMB 12 FE-Vario	bus- version without physical inputs

Accessory

AD-AB 12/24/32 WG	terminal block for hat rail available with up to 32 inputs (only adaptable with the bus version) see: Datasheet AD-AB 12/24/32

Technical specifications

Active inputs	
Voltage range	5 ... 30 VDC
Input resistance	> 45 kOhm
Supply	
Voltage range AC	50 ... 253 V AC, 50 / 60 Hz
Voltage range DC	22 ... 253 V DC
Nominal voltage AC / DC	230 V AC / 24 V
Power consumption AC / DC	7,0VA / 3,8W
Feeding voltage for contacts	
Voltage	4,8 ... 5,2 V DC
Strength	max. 1 mA
Relay	
Max. load AC	250 V / 2 A (cos phi = 1)
Max. load DC	50 V / 0,5 A (resistive load)
Cycles AC- load	ca. 100000 (cos phi = 1)
Cycles DC- load	ca. 100000 (resistive load)
Housing	
Dimensions (WxHxD)	144x72x71 mm
Front panel cut out	140x68 mm
Protection class panel	IP 54
Protection class connection	IP 20
Connection method	detachable terminal clamp
Manner of fastening	Panel-mount-case
Terminals, wire cross section	1,0 mm² Strand with wire end ferrule / 1,5 mm² one wire
Weight	260 g
Environmental conditions	
Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)
EMC	
Product family standard	EN 61326-1
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1
Electrical safety requirements	
Product family standard	EN 61010-1
RS485- Bus	
Max. attendance	32
Max. length of bus	100 m
Bus termination	120 Ohm (both sites of the bus)
Wiring	bus topology

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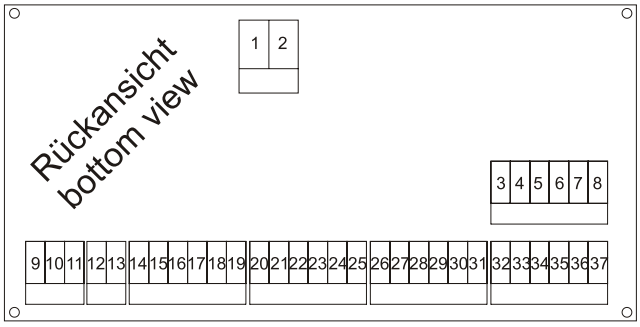
Technical specifications

Terminal assignment

Clamp	connection name
1	supply voltage
2	supply voltage
3	contact supply
4	contact supply
5	input for light test
6	ground
7	ground
8	ground
9	relay NO
10	relay COM
11	relay NC
12	RS485 A
13	RS485 B
14	input 1
15	input 2
16	input 3
17	input 4
18	input 5
19	input 6
20	input 7
21	input 8
22	input 9
23	input 10
24	input 11
25	input 12
26	input 13
27	input 14
28	input 15
29	input 16
30	input 17
31	input 18
32	input 19
33	input 20
34	input 21
35	input 22
36	input 23
37	input 24

Block and wiring diagram



Dimensions