

# Indicator Light

AD-LM 16 FE-Vario

AD-LMB 16 FE-Vario

## Description

The signal/fault indicator AD-LM 16 FE-Vario, for mounting at the front of the control panel, informs with 16 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 16 Vario can catch and save short pulses at the inputs, and for resetting its possible to connect external buttons. The device comes with 32 independent 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 16 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-16 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
- 32 independent inputs
- short-circuit proof feeding voltage
- external terminal-block for hat rail available

## Business data

### Order number

AD-LM 16 FE-Vario

standard version with physical inputs

AD-LMB 16 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 V DC
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	4,0 VA / 1,9 W

### 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)	96x96x71 mm
Front panel cut out	92x92 mm
Protection class panel	IP 54
Protection class connection	IP 20
Connection method	detachable terminal clamp
Terminals, wire cross section	1,0 mm <sup>2</sup> Strand with wire end ferrule / 1,5 mm <sup>2</sup> one wire
Manner of fastening	Panel-mount-case
Weight	305 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
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### 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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Page 1/2

Printed 24.08.2022 We reserve the right for technical changes.

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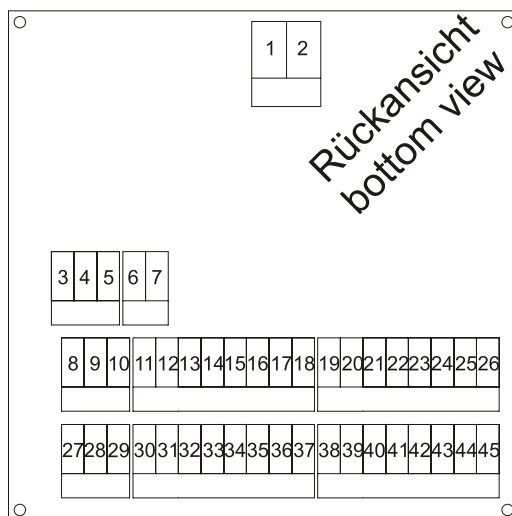
AD-LMB 16 FE-Vario

## Technical specifications

### Terminal assignment

Clamp	connection name		
1	supply voltage	22	input 12
2	supply voltage	23	input 13
3	ground	24	input 14
4	ground	25	input 15
5	ground	26	input 16
6	RS485 A	27	relay NO
7	RS485 B	28	relay COM
8	contact supply	29	relay NC
9	contact supply	30	input 17
10	input for light test	31	input 18
11	input 1	32	input 19
12	input 2	33	input 20
13	input 3	34	input 21
14	input 4	35	input 22
15	input 5	36	input 23
16	input 6	37	input 24
17	input 7	38	input 25
18	input 8	39	input 26
19	input 9	40	input 27
20	input 10	41	input 28
21	input 11	42	input 29
		43	input 30
		44	input 31
		45	input 32

## Block and wiring diagram



## Dimensions

