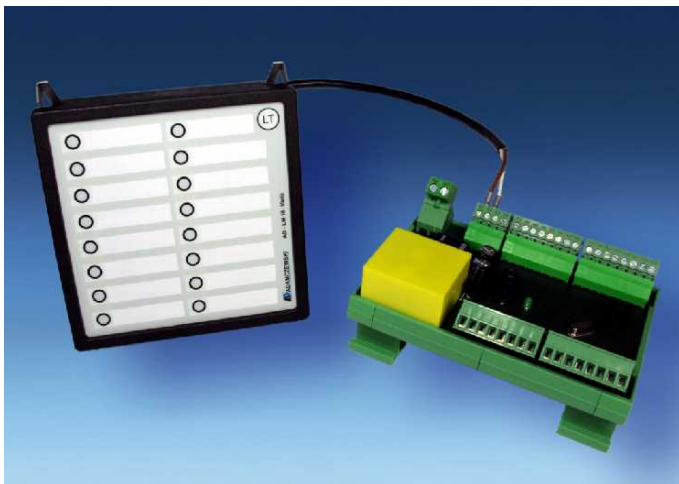


## Description

The detached connection block AD-AB 12/24/32 has been specially developed for the LMB Vario series of devices. The bus version of the Vario illuminated indicator has no input terminals and is therefore controllable exclusively via the RS485 bus. The detached connection block AD-AB 12/24/32 can be connected at this bus connection. This bus connection has active inputs, which are transmitted to the indicator light via its RS485 bus. With this, the Vario illuminated indicator can be configured via the configuring software ADStudio and behaves as if it had physical inputs. If the illuminated indicator is located in the control cabinet door or in the control centre, then the connection block can be easily mount on the hat rail in the control cabinet on site. The external connection block is available in three different variants. With 12, 24 and 32 inputs. The connection block has a short-circuit-proof supply voltage, with which contacts can also be supplied and therefore queried. Furthermore, an efficient switching power supply has been fitted, which works in a wide supply voltage range.

## Application

Application in connection with the Vario bus illuminated indicators (AD-LMB 6, AD-LMB 12, AD-LMB 16). When messages are to be indicated spatially separated from the control cabinet, a substantial amount of wiring can be saved here.



## Specific characteristics

- available with 12, 24 or 32 inputs
- RS485 Bus connection to the indicator lights
- Allpower supply
- short-circuit proof feeding voltage
- mounting on DIN rail

## Business data

### Order number

AD-AB 12	(12 Inputs)
AD-AB 24	(24 Inputs)
AD-AB 32	(32 Inputs)

## Technical specifications

### Active inputs

Voltage range	5 ... 30 V DC
Input resistance	> 45 kOhm

### Supply

Supply voltage	20 ... 253 V AC/DC
Max. power consumption	0,3W / 0,6VA

### Feeding voltage for contacts

Voltage	4,8 ... 5,2 V DC
Strength	max. 1 mA

### RS485 Bus

Cable length (screened)	max. 100 m (terminator is integrated)
Send interval input data	ca. 100 ms

### Housing

Dimensions (WxHxD)	113x82x54 mm
Type of protection	IP 10
Connection method	terminal clamp / optionally detachable terminal clamp
Manner of fastening	DIN rail housing
Clamping torque- RM 5	0,5 Nm
Clamping torque- RM 3,81	0,25 Nm
Weight	150 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

### Electrical safety requirements

Product family standard	EN 61010-1
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### LEDs

Power- LED (green)	On: power supply OK Off: power supply error
Data- LED (yellow)	blinking: data connection OK On/Off: data connection error

# External Terminal Block

AD-AB 12

AD-AB 24

AD-AB 32

## Technical specifications

### Terminal assignment

Clamp	connection name
U1	supply voltage
U2	supply voltage
B1	RS485 Bus clamp B
B2	RS485 Bus clamp A
G	GND of the device
SP	Supply Voltage for contacts
1	input 1
2	input 2
3	input 3
4	input 4
5	input 5
6	input 6
7	input 7
8	input 8
9	input 9
10	input 10
11	input 11
12	input 12

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input 13

input 14

input 15

input 16

input 17

input 18

input 19

input 20

input 21

input 22

input 23

input 24

input 25

input 26

input 27

input 28

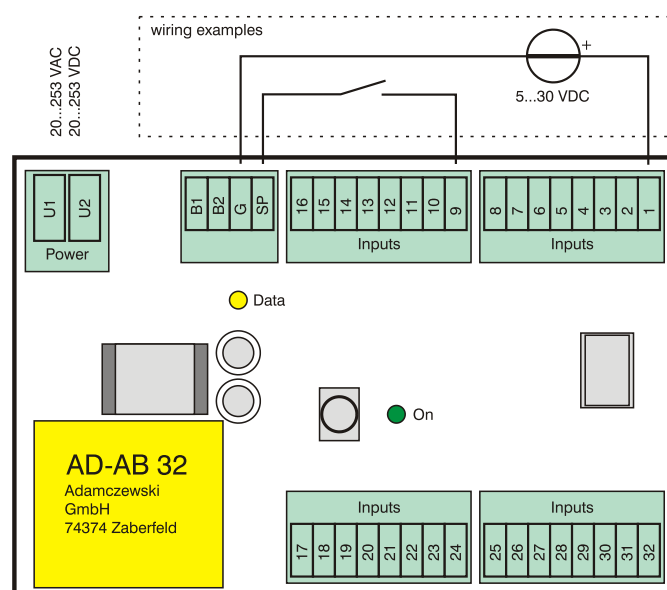
input 29

input 30

input 31

input 32

## Block and wiring diagram



## Dimensions

