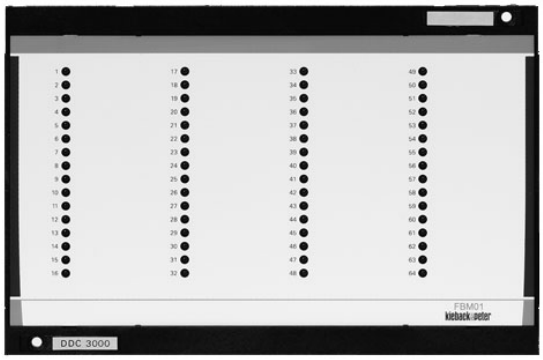
FBM01 Fieldbus control module

Application

FBM01 fieldbus control module with 64 LEDs for signaling.

3 status messages can be parameterized: off/constant light/flashing light (red)

Data is transferred between the controller and the control module via the fieldbus.



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Item

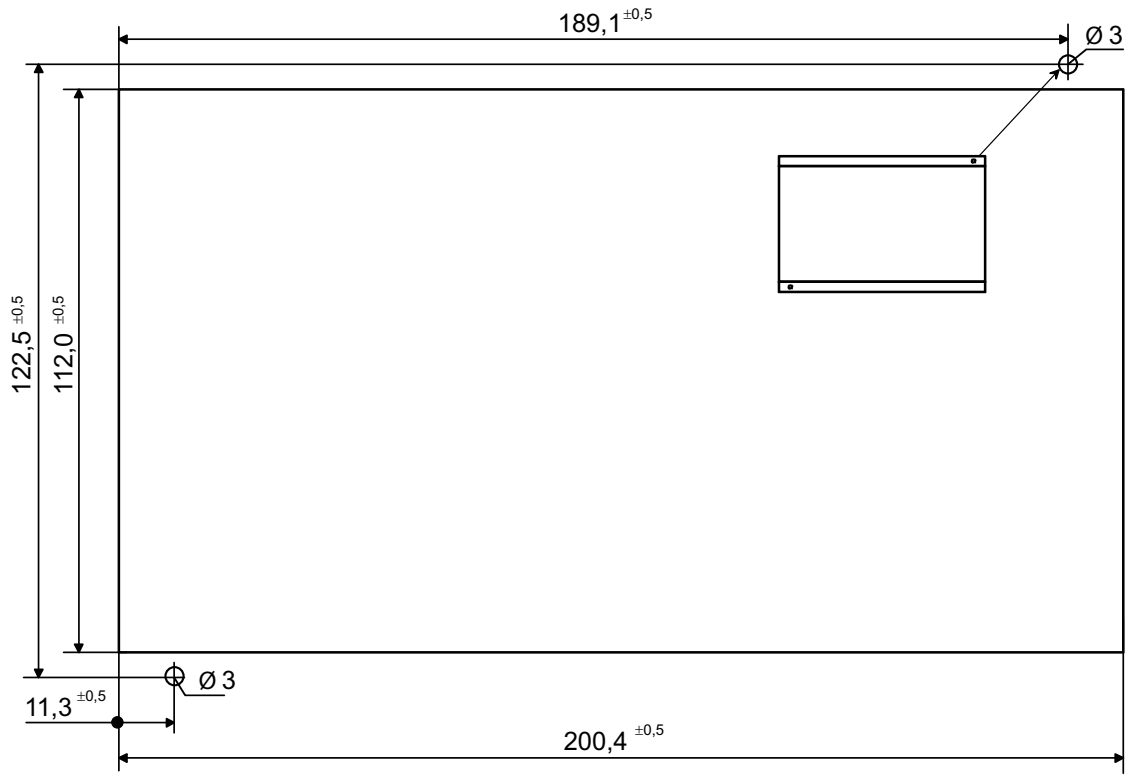
FBM01	Fieldbus control module with 64 LEDs

Technical Data

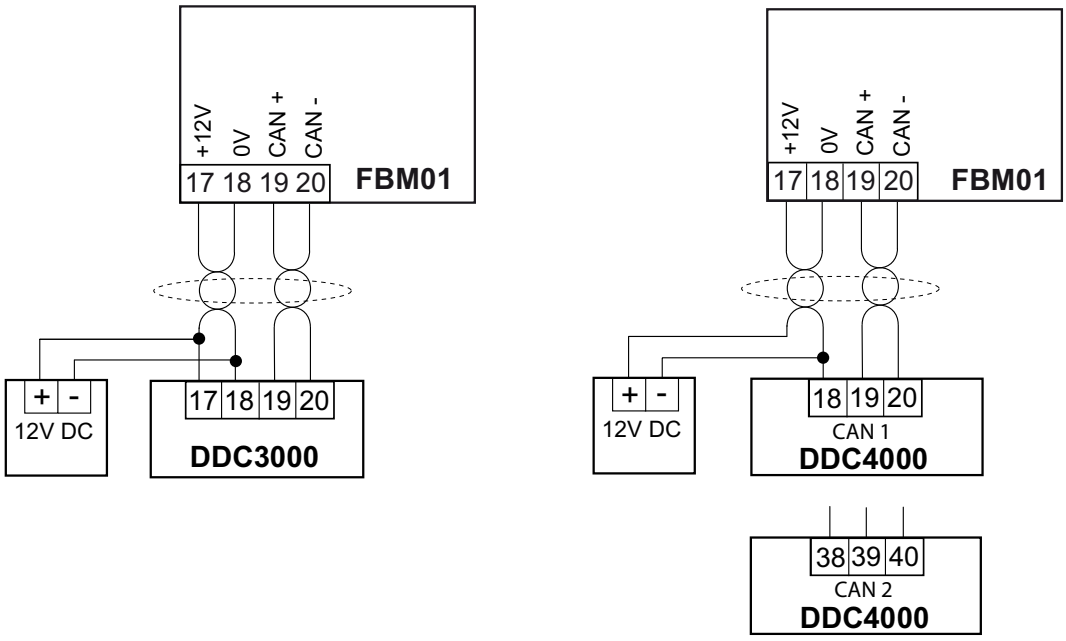
Nominal voltage	DC 12 V ± 20%/90 mA; 1.08 W	
Interface	CAN; fieldbus 2000 m, 20 kBd	
Address switch	Addressing from 01 to 63 by means of 2 rotary switches (behind the front panel)	
Indicator	64 LEDs	Off, continuous and flashing, configurable
	2 LEDs (behind the front panel)	Green BUS LED: Flashing = fieldbus data transmission Red Error LED: Fieldbus error
Degree of protection	IP40	
Housing	19" plastic short enclosure; quadruple width	
Ambient temperature	0 °C to 45 °C	
Ambient humidity	20% to 80% r.h., non-condensing	
Installation	Door installation/rack-mount system	
Front panel cut-out	200.4 mm x 112.0 mm	
Dimensions	WxHxD mm 02x132x45	
Weight	0.7 kg	

Dimensions

- Installation Dimensions



Connection



Installation

NOTICE

This product description describes specific settings and functions of the FBM01. In addition to these instructions, observe the product descriptions of other system components, such as DDC controller DDC4000 or DDC3000.

NOTICE

Switching on the power supply of unparameterized products can lead to unforeseen consequences such as malfunctions or material damage.

Switch on the power only after the device has been configured by the commissioning technician.

Fieldbus

When connecting the fieldbus, use a cable of at least type JY(St)Y 2x2x0.8 Lg: two x two wires, twisted to a pair with plastic insulation and an electrostatic shield with a wire diameter of at least 0.8 mm. Use a stranded pair of wires for the data lines (+ and -) and another free wire for the ground connection (0).

At the end of the fieldbus (furthest point from the DDC controller), install a terminating resistor of about 180 ohms between both data lines (+ and -). The terminating resistor is included with the DDC controller.

The maximum cable length for the Fieldbus is 2000 m.

Commissioning

NOTICE

Commissioning by switching on the supply voltage may occur only after the commissioning technician/engineer has finished configuring the DDC and has set the fieldbus address.

- Configuration is described in the DDC controller project planning documentation.
- Before switching on the supply voltage, check the electric installation and the device connections.
- After configuring the device and switching on the supply voltage, check the functions of the module and the connected inputs and outputs.

Setting the address

Address setting: From 01 to 63

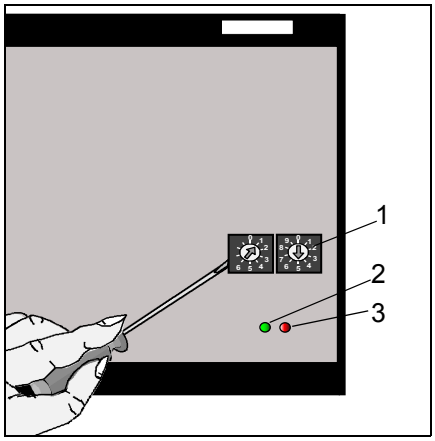
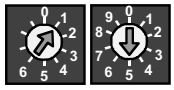


Illustration without front panel



Example: 15

(1) Address switch
(2) Bus LED display
(3) Error LED display

LED Display for Bus/Error

Green LED (2)	Red LED (3)	Meaning	Cause
Off	Off	Module not in operation	■ No operating voltage or operating voltage too low
On	On	Module in operation, but there is a bus error	■ Bus line short circuit (with respect to ground or each other) ■ Bus lines mixed up ■ Bus line(s) interrupted ■ Module not registered
Flickers	Flashes	Address error	■ Outside of address range (01–63) ■ Address assigned multiple times
Flickers	On	Module logging on	
Flickers	Off	Module OK, bus activity	