












büS distribution box, IP65/ IP67/ IP69k

- Passive distributor for expansion of büS/CANopen-based networks
- Connection option for up to eight büS devices or other network extensions
- Easy integration of Bürkert devices in industrial control systems using EDIP gateways
- No passive distributor configuration required

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

	Type ME63 Industrial Ethernet gateway, IP65/ IP67/ IP69k	▶
	Type ME43 Fieldbus gateway	▶
	Type ME64 I/O modules IP65/IP67/IP69k	▶
	Type 8742 Mass flow controller (MFC) / mass flow meter (MFM) for gases	▶
	Type 8653 AirLINE Field – the valve island – optimised for process automation	▶
	Type 8802 ELEMENT continuous control valve systems – overview	▶
	Type 3361 Electromotive 2-way globe control valve	▶
	Type 8681 Control head for decentral- ized automation of hygienic process valves	▶
	Type 8906 Online water analysis system	▶

Type description

The Type ME66 büS passive distributor is the central control unit for Bürkert products (valves, sensors, process control systems), which is based on EDIP (Efficient Device Integration Platform) and used in processes requiring a high degree of protection. Type ME66 consists of connections for the simple distribution of büS/ CANopen-based data lines and the associated power supply. With the help of eight M12 ports, CANopen-based Bürkert field devices can be connected directly to the ME66. The power can either be supplied via M12 L-power ports (up to 32 A) or M12 A-coded ports (up to 4 A). One of the connected devices will typically be an Industrial Ethernet gateway of the types ME63 or ME43, which transmits the CAN-Open-based communication of the Bürkert field devices at all common industrial standards as a fieldbus gateway. The power supply via the M12 L-power input can be passed through to other devices via the second M12 L-power output. The power supply can be divided into two independent voltage rails with the aid of a switch on the side of the device.

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1. General Technical Data

Product properties	
Dimensions	Further information can be found in chapter "3. Dimensions" on page 4.
Weight	400 g
Material	
Housing or body	PC (polycarbonate)
Status display	Indicator for power supply
Electrical data	
Operating voltage	24 V DC \pm 10 %, residual ripple 10 % ¹⁾
Power consumption of module	0.73 W
Maximum input current	4 A for supply via X01 (M12, A-coded, plug), 32 A for supply via X03 (M12, L-coded, plug), factory set to X03 (with separate power supply: Power 1 for X1-X4, Power 2 for X5-X6) For supply via X01 instead of X03 or combination of the pole pairs of X03 (Power 1 and Power 2), the switch under the blue cover must be switched.
Maximum output current	4 A per bÜS-/CANopen connection (X1-X4, X5-X8) for supply via X03, 4 A total with supply via X01
Process/Port connection & communication	
Communication interface	Connections X01 and X02, M12, A-coded
Electrical connection	Via X01 (IN) or X02 (OUT): M12, A-coded, or via X03 (IN) and X04 (OUT): M12, L-coded (depending on switch position, see maximum input current)
CANopen-/bÜS communication (proprietary)	X01 and X02 as well as X1 to X8 for integration of the module into a CANopen/bÜS network
Approvals and conformities	
Further information can be found in chapter "2. Approvals and conformities" on page 3.	
Environment and installation	
Ambient temperature	- 20 °C...+ 60 °C
Storage temperature	- 30 °C...+ 80 °C
Degree of protection	IP65, IP67 and IP69k according to EN 60529 / IEC 60529 (with cables connected and with protective caps on unused connections)
Height above sea level	Maximum 2000 m

1.) The requirements of all connected components must be taken into consideration when selecting the power supply.

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available versions can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

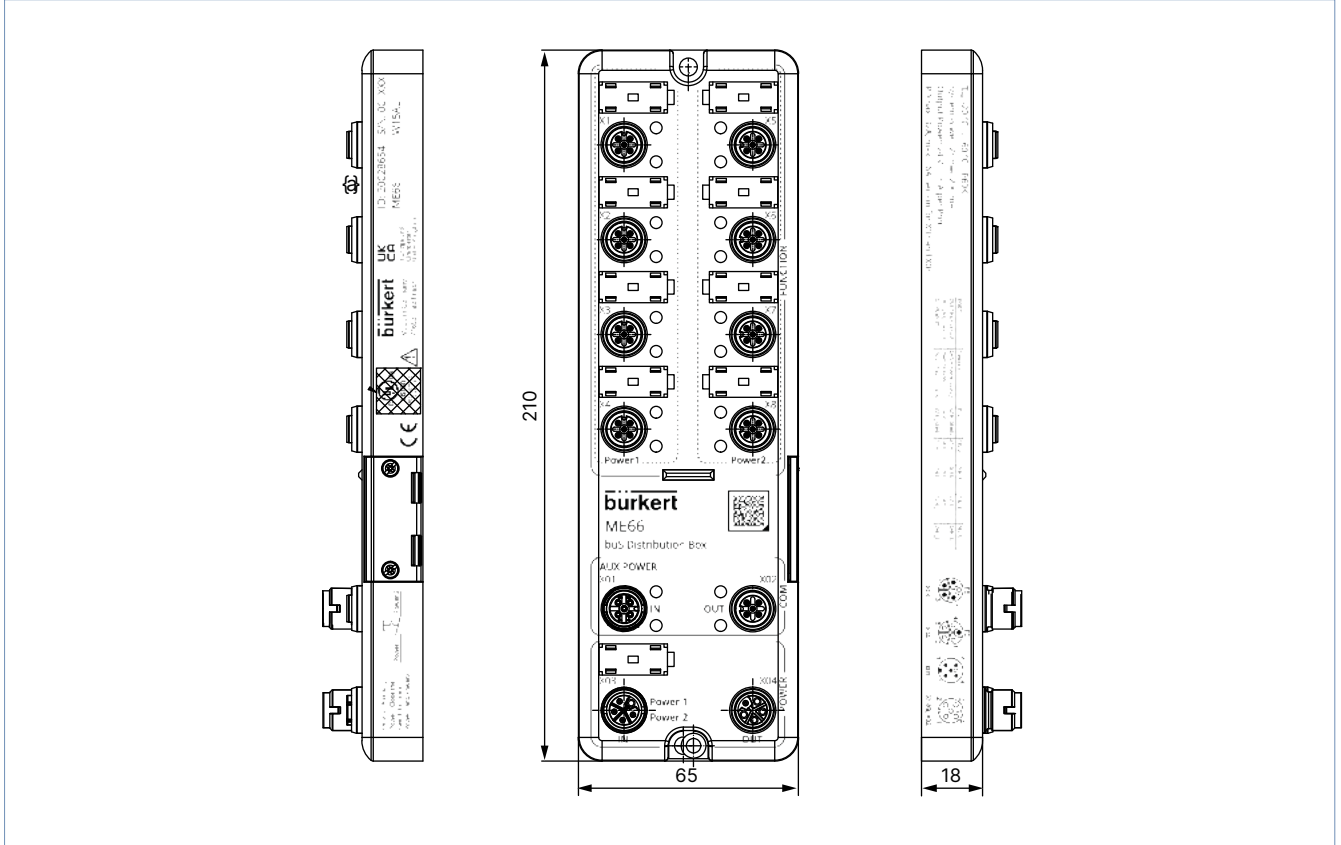
The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Dimensions

3.1. Passive distributor module Type ME66

Note:

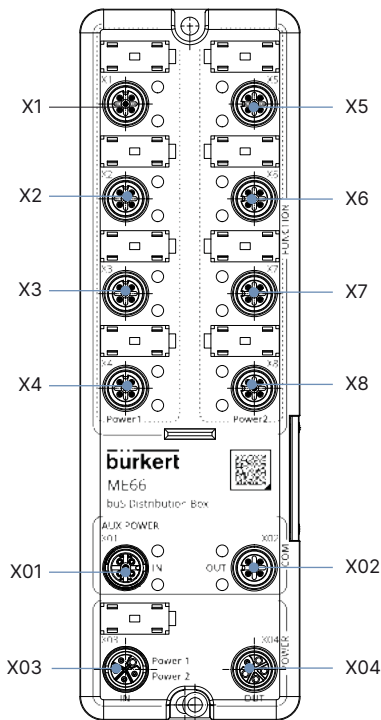
Dimensions in mm



4. Device/Process connections

4.1. Passive distributor Module Type ME66

Connection details



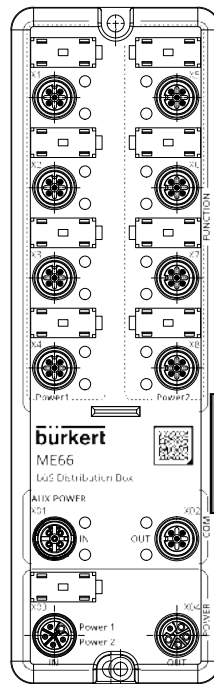
No.	Description
X1	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X2	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X3	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X4	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X5	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X6	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X7	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X8	M12-A, socket, büS/CANopen and 24 V DC, maximum 4 A, for connecting a device via büS/CANopen
X01	M12-A, plug, büS/CANopen IN, for the büS/CANopen connection
X02	M12-A, socket, büS/CANopen OUT, for the integration of further büS/CANopen devices
X03	M12-L, plug, Power IN, maximum 32 A, for feeding the power supply
X04	M12-L, socket, Power OUT, maximum 32 A, for the power supply of further devices

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Pin assignment

Note:

- The L-coded M12 connection (X03, X04) is designed for the connection of 2 power supplies, each up to maximum 16 A.
- Power 1 supplies the M12 X1-X4 and Power 2 supplies the M12 X5-X8.
- Supplies are routed separately on the module or brought together, depending on the position of the switch



M12, X01 (plug) and X1 to X8 and X02 (socket), A-coded		Pin	Pin assignment	Function
		1	FE/CAN_GND	Shielding
		2	24 V	Power supply
		3	GND	Power supply
		4	CAN_H	büS communication
		5	CAN_L	büS communication
M12, X03 (plug), X04 (socket), L-coded		Pin	Pin assignment	Function
		1	24 V	Power supply Power 1
		2	GND	Power supply Power 1
		3	GND	Power supply Power 2
		4	(24 V)	Power supply Power 2
		5	FE	Shielding

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5. Product design and assembly

5.1. Product features

Passive distributor module Type ME66

	<p>Function Connection of terminal devices or further distributors, bus/CANopen and operating voltage on M12, A-coded</p>
	<p>Switch Switching from X03 to X01 for the power supply, or separation/combination of Power 1 and Power 2 with supply via X03</p>
	<p>Communication Integration of the units connected via the module into a bus/CANopen network, M12, A-coded</p>
	<p>Power supply M12, L-coded</p>

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6. Product accessories

6.1. EDIP – Efficient Device Integration Platform

EDIP is a Bürkert device platform that standardises the operation, communication and interfaces of many process devices (e.g. sensors, mass flow controllers). Thanks to EDIP, devices can be intelligently networked and operated with the standardized software, the Bürkert Communicator. The backbone and connecting link of EDIP is a digital interface that complies with the CANopen standard and can always be used in a manner compatible with it.

EDIP offers the user the following advantages:

- Interoperability - guaranteed by the uniform interface
- Comfortable operation and display concept
- Faster and simplified commissioning
- Modularity - allows the devices to be adapted to individual customer requirements
- Easy transfer and fusion of device settings

6.2. Bürkert Communicator Software

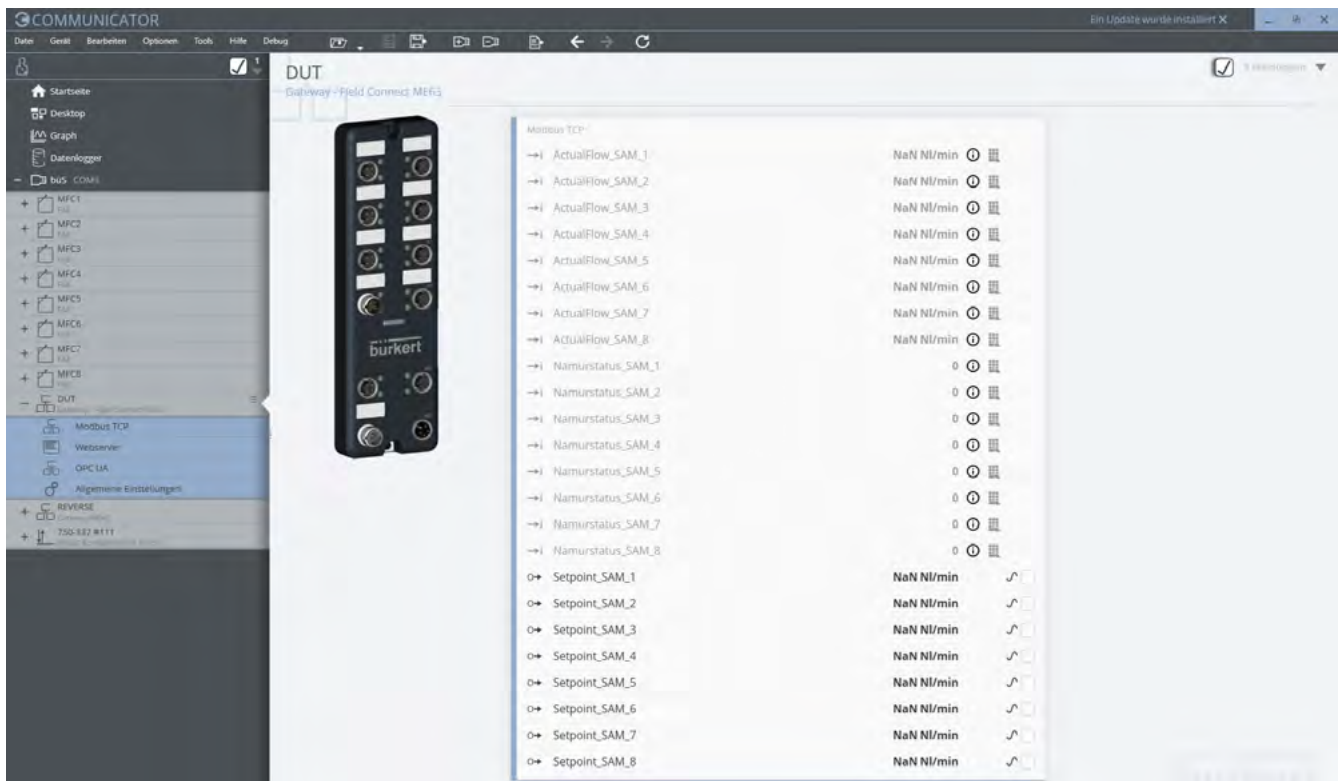
Note:

The associated communication software can be downloaded under **Type 8920** ▶.

The Bürkert Communicator is the most important software tool of the device platform EDIP (Efficient Device Integration Platform). The extensive features of this universal tool facilitate the configuration and parameterisation of all devices equipped with the digital CANopen-based interface. The Bürkert Communicator provides the user with a complete overview of all cyclic process values and acyclic diagnostic data. The integrated graphical programming environment enables the creation of control functions for decentralised sub-systems. The connection to the PC can be established via a USB-bUS interface set. This is available as an accessory, see **"8.4. Ordering chart accessories"** on page 11.

The Bürkert Communicator enables:

- Configuration, parameterisation and diagnosis of EDIP devices/networks
- Easy and convenient assignment (mapping) of cyclical values
- Graphical display of process values
- Firmware update of the connected EDIP devices
- Saving and restoring device configurations

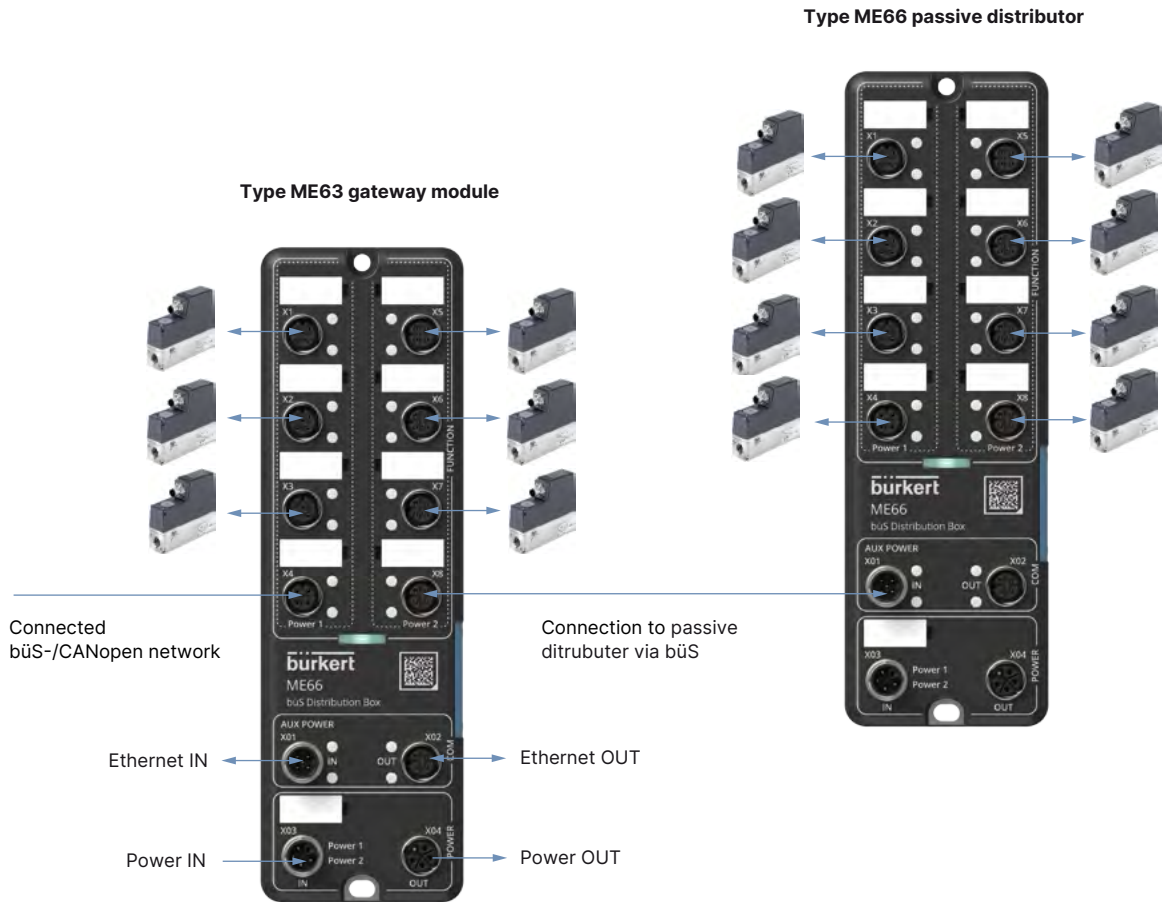


7. Networking and combination with other Bürkert products

7.1. Example for Type ME66 in combination with industrial ethernet gateway Type ME63

Note:

- Drop lines must not be longer than 5 m.
- Signal integrity measurement is recommended for star cabling of more extensive networks.
- See also **cabling guide** ▶



Short description of the illustrated example:

- Connection of 6 Bürkert devices via drop line to X1-X3, X5-X7 of the gateway module (left)
- Integration in bus-/CANopen network via X4 and X8
- The passive distributor (right) connects another 8 devices via drop lines.
- All bus devices can be reached via the Ethernet connection of the gateway module (left).
- Altogether up to 126 bus-/CANopen devices can be connected to one gateway.

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8. Ordering information

8.1. Bürkert eShop



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8.2. Bürkert product filter





Bürkert product filter – Get quickly to the right product




































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8.3. Ordering chart

Article	Article no.
Passive distributor Type ME66 (variant 1, ME63)	346873 
Passive distributor Type ME66 (variant 2, with separate power supply via X03)	20028654 

8.4. Ordering chart accessories

Article	Article no.
Type ME63 Industrial Ethernet gateway	346845 
16x digital inputs, 16DI module (Type ME64) (version 2, with 8 frequency inputs)	20021994 
büS cable extension, M12, cable length: 0.1 m	772492 
büS cable extension, M12, cable length: 0.2 m	772402 
büS cable extension, M12, cable length: 0.5 m	772403 
büS cable extension, M12, cable length: 1 m	772404 
büS cable extension, M12, cable length: 3 m	772405 
büS socket, M12, straight, A-coded ¹⁾	772416 
büS plug, M12, straight, A-coded ¹⁾	772417 
büS socket, M12, angled, A-coded ¹⁾	772418 
büS plug, M12, angled, A-coded ¹⁾	772419 
büS Y plug	772420 
büS Y plug for linking 2 separately supplied segments of a büS network	772421 
büS plug, M12, terminating resistor 120 Ω	772424 
büS socket, M12, terminating resistor 120 Ω	772425 
Protective cap for connector housing M12	00917155 
Power supply unit Phoenix Class2 (Type 1573), 85...240 V AC/24 V DC, 1.25 A, NEC Class 2 (UL 1310)	772438 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 1 A, NEC Class 2 (UL 1310)	772361 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 2 A, NEC Class 2 (UL 1310)	772362 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 3.8 A, NEC Class 2 (UL 60950 - 1)	772898 
Power supply unit for standard rail (Type 1573), 100...240 V AC/24 V DC, 10 A	772698 
Micro-SD card	774087 
büS-Stick Set 1 (incl. cable (M12), stick with integrated terminating resistor, power supply and software)	772426 
büS-Stick Set 2 (incl. cable (M12)), stick with integrated terminating resistor	772551 
Bürkert Communicator Software	Type 8920 
Industrial Ethernet connection cable (RJ45 to M12 plug, D-coded)	
RJ45 on M12 plug, D-coded, cable length: 1 m	775050 
RJ45 on M12 plug, D-coded, cable length: 2 m	775051 
RJ45 on M12 plug, D-coded, cable length: 3 m	775052 
RJ45 on M12 plug, D-coded, cable length: 5 m	775053 
RJ45 on M12 plug, D-coded, cable length: 10 m	775054 
RJ45 on M12 plug, D-coded, cable length: 15 m	775055 
RJ45 on M12 plug, D-coded, cable length: 20 m	775056 
Industrial Ethernet connection cable (RJ45 to M12 plug, D-coded, angled)	
RJ45 on M12 plug, D-coded, angled, cable length: 0.5 m	774826 
RJ45 on M12 plug, D-coded, angled, cable length: 1 m	774827 
RJ45 on M12 plug, D-coded, angled, cable length: 2 m	774830 

1.) For space reasons, M12 individual push-in connectors may not be suitable for simultaneous use on the same side as a Y distributor. Use a commercially available covered cable in this case.