

Optional fieldbus connection with I/O function (CMS), B-design

- B-design
- Bus coupler with driver
- Fieldbus protocol PROFIBUS DP CANopen DeviceNet EtherNET/IP PROFINET IO



| | |
|---------------------------------|-------------------------|
| Version | Bus coupler with driver |
| Ambient temperature min./max. | 0 ... 50 °C |
| Operational voltage electronics | 24 V DC |
| Electronics voltage tolerance | -15% / +20% |
| Operating voltage, actuators | 24 V DC |
| Protection class | IP65 |
| I/O module extension max. | 6 |
| Weight | See table below |

The delivered product may vary from that in the illustration.

Technical data

| Part No. | Fieldbus protocol | Port |
|------------|-------------------|--|
| | | 1 |
| R412003484 | PROFIBUS DP | Plug (male), M12, 5-pin, B-coded |
| R412008516 | PROFIBUS DP | Plug (male), M12, 5-pin, B-coded |
| R412005747 | CANopen | Plug (male), M12, 5-pin, A-coded |
| R412008518 | CANopen | Plug (male), M12, 5-pin, A-coded |
| R412004346 | DeviceNet | Plug (male), M12, 5-pin, A-coded |
| R412012755 | EtherNET/IP | - |
| R412014581 | PROFINET IO | Socket (female), M12x1, 4-pin, D-coded |
| R412014583 | PROFINET IO | Socket (female), M12x1, 4-pin, D-coded |

| Part No. | Port | power supply |
|------------|--|------------------------------------|
| | 2 | |
| R412003484 | Socket (female), M12, 5-pin, B-coded | Plug (male), M12, 4-pin, A-coded |
| R412008516 | Socket (female), M12, 5-pin, B-coded | Plug (male), M12, 4-pin, A-coded |
| R412005747 | Socket (female), M12, 5-pin, A-coded | Plug (male), M12, 4-pin, A-coded |
| R412008518 | Socket (female), M12, 5-pin, A-coded | Plug (male), M12, 4-pin, A-coded |
| R412004346 | Socket (female), M12, 5-pin, A-coded | Plug (male), M12, 4-pin, A-coded |
| R412012755 | Socket (female), M12, 5-pin, D-coded | Plug (male), M12, 4-pin, A-coded |
| R412014581 | Socket (female), M12x1, 4-pin, D-coded | Plug (male), M12x1, 4-pin, A-coded |
| R412014583 | Socket (female), M12x1, 4-pin, D-coded | Plug (male), 7/8"-16UNF, 5-pin |

| Part No. | Number of outputs for valve coils | Port |
|------------|-----------------------------------|--------------------------------|
| | | Valve system |
| R412003484 | 24 | Socket, 2.0 mm strip, 2x13-pin |
| R412008516 | 32 | Socket, 2.0 mm strip, 3x13-pin |
| R412005747 | 24 | Socket, 2.0 mm strip, 2x13-pin |
| R412008518 | 32 | Socket, 2.0 mm strip, 3x13-pin |

| Part No. | Number of outputs for valve coils | Port |
|------------|-----------------------------------|--------------------------------|
| | | Valve system |
| R412004346 | 24 | Socket, 2.0 mm strip, 2x13-pin |
| R412012755 | 32 | Socket, 2.0 mm strip, 3x13-pin |
| R412014581 | 32 | - |
| R412014583 | 32 | - |

| Part No. | Power consumption electronics | Max. power consumption per coil | Weight | Fig. | |
|------------|-------------------------------|---------------------------------|---------|--------|----|
| R412003484 | 0,12 A | 0,063 mA | 0,84 kg | Fig. 1 | 1) |
| R412008516 | 0,12 A | 0,063 mA | 0,84 kg | Fig. 1 | 1) |
| R412005747 | 0,12 A | 0,063 mA | 1 kg | Fig. 1 | 1) |
| R412008518 | 0,12 A | 0,063 mA | 1 kg | Fig. 1 | 1) |
| R412004346 | 0,12 A | 0,063 mA | 1 kg | Fig. 1 | 1) |
| R412012755 | 0,12 A | 0,063 mA | 1 kg | Fig. 2 | 2) |
| R412014581 | 0,1 A | 0,1 mA | 0,91 kg | Fig. 1 | 1) |
| R412014583 | 0,1 A | 0,1 mA | 0,91 kg | Fig. 3 | 1) |

Scope of delivery incl. 2 tie rod extensions and seal, The following operating instructions can be found in the Media Center for: ↔PROFIBUS DP: R499050016 ↔CANopen: R412005742 ↔DeviceNet: R499050019 ↔EtherNET/IP: R412012728

1) Connection with two valve voltage circuits.

2) Connection with two valve voltage circuits., Only star topology

Technical information

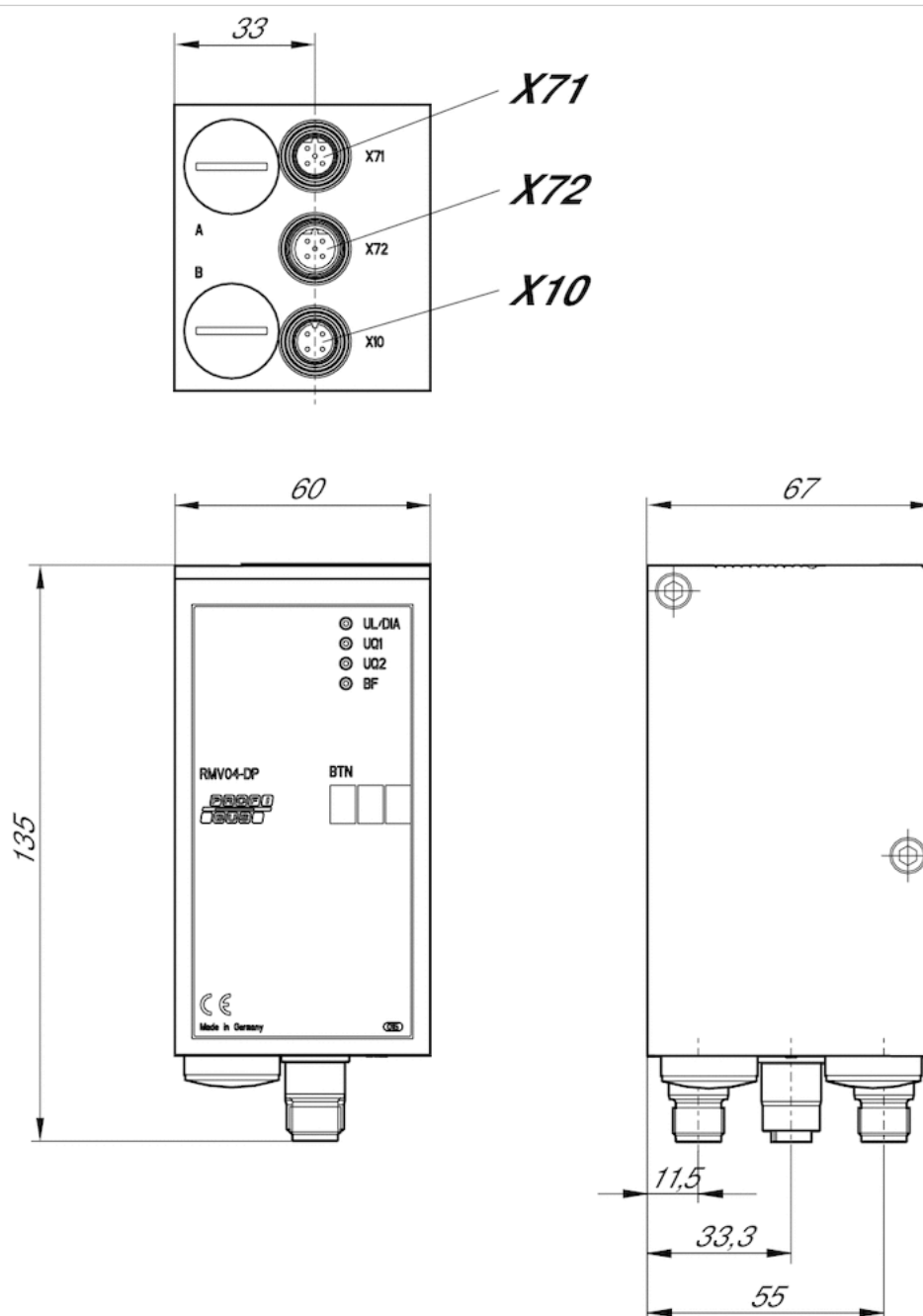
Caution: A reduced temperature range in accordance with the operating instructions may need to be considered in ATEX applications. You will find assignment schemes for the product in the operating instructions, or contact the nearest AVENTICS sales office.

Technical information

| Material | |
|----------|-------------------|
| Housing | Die-cast aluminum |

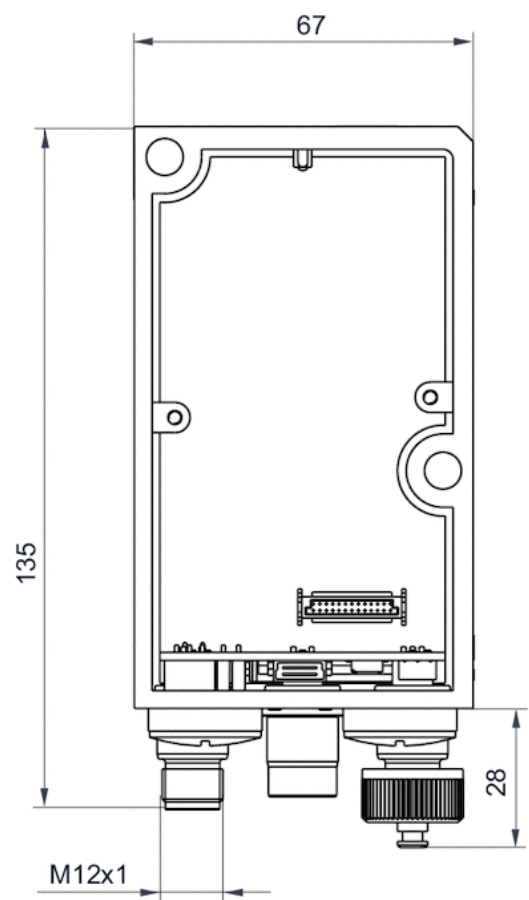
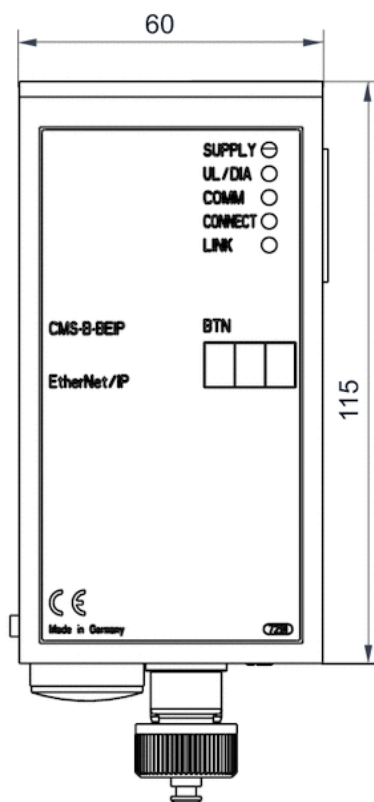
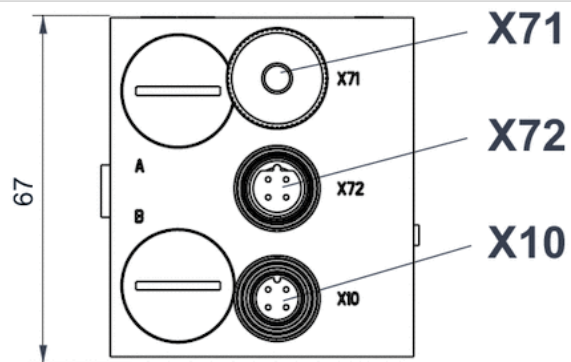
Dimensions

Fig. 1



X71, (Bus IN), M12x1
 X72, (Bus OUT), M12x1
 X10, (Power), M12x1

Fig. 2

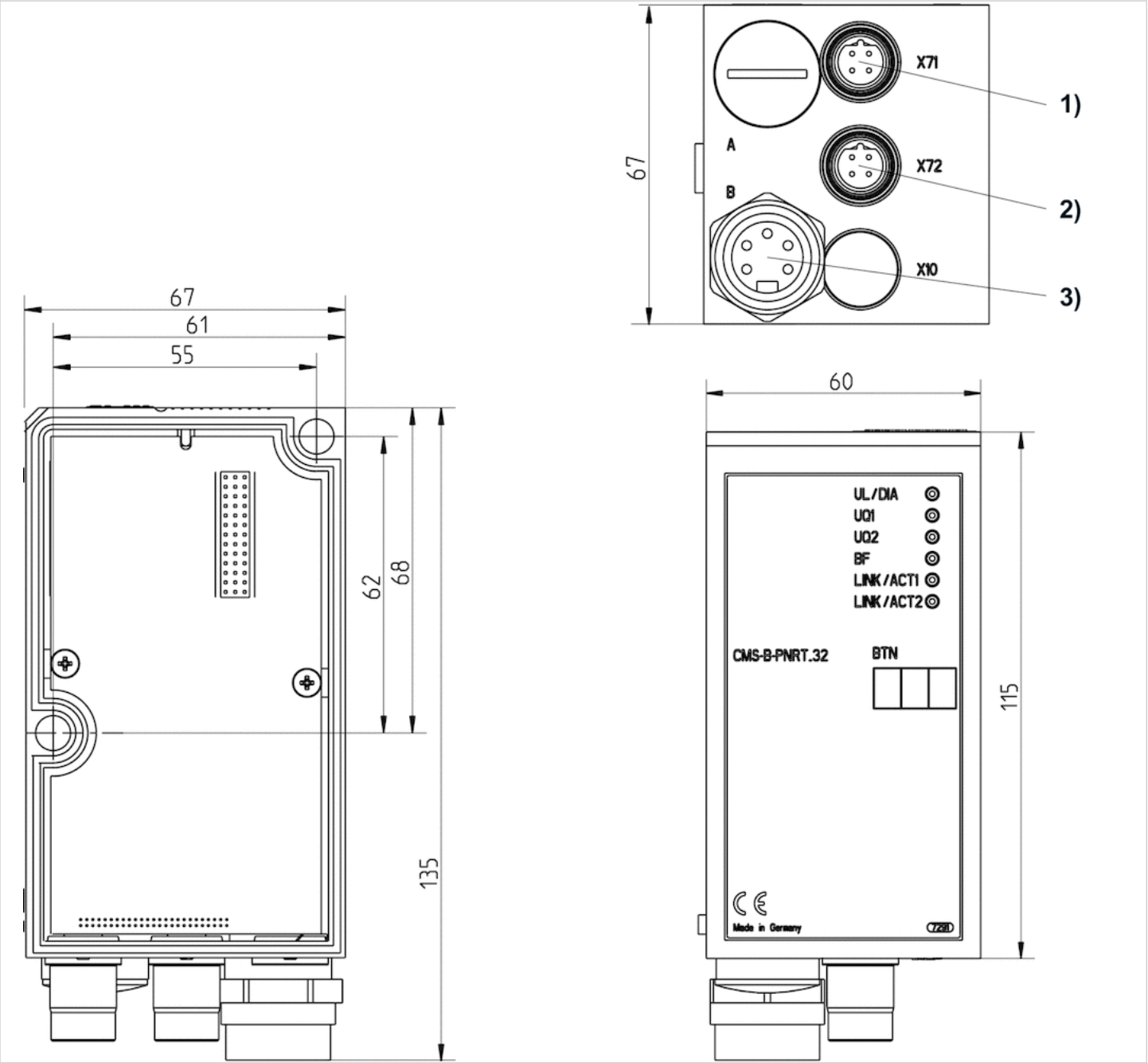


X71 = optional interface

X72 = Bus

X10 = Power

Fig. 3



1) Bus IN 2) Bus OUT 3) Power supply

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An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

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2020-12



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