

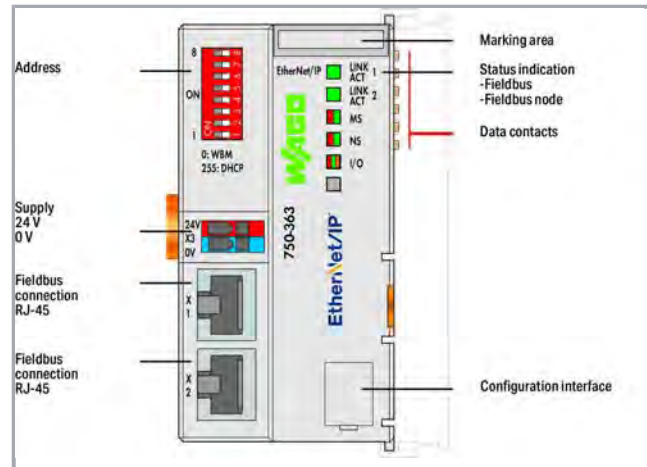
# Data sheet | Item number: 750-363

Fieldbus Coupler EtherNet/IP; 4th generation; ECO; -

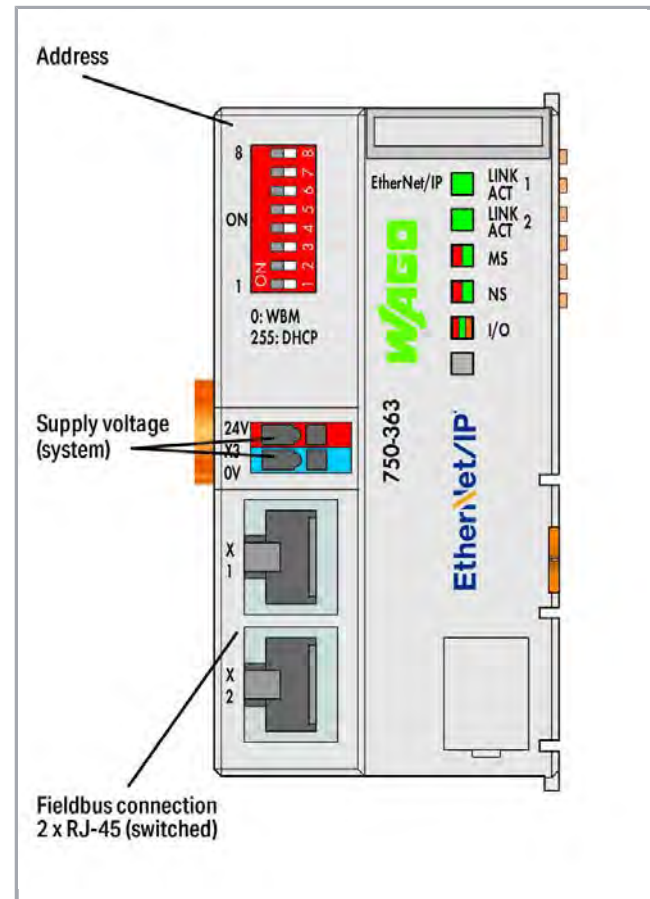
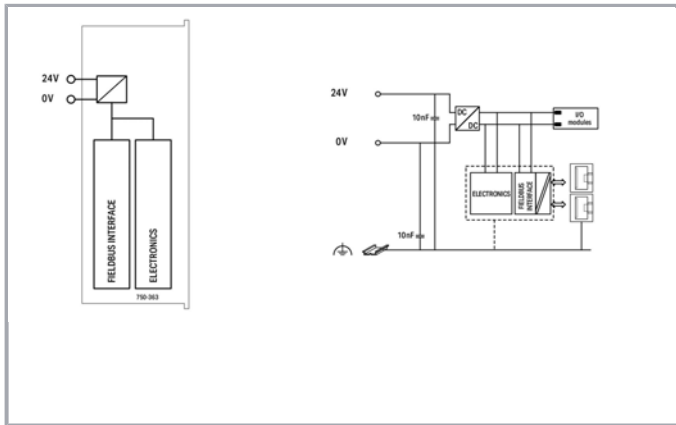


RoHS  
Compliant

BOMcheck.net



Subject to changes. Please also observe the further product documentation!



## Item description

The 750-363 EtherNet/IP Fieldbus Coupler connects the EtherNet/IP fieldbus system to the modular WAGO I/O System.

The fieldbus coupler detects all connected I/O modules and creates a local process image.

Two ETHERNET interfaces and an integrated switch allow the fieldbus to be wired in a line topology, eliminating the need for additional network devices, such as switches or hubs.

Both interfaces support autonegotiation and Auto-MDI(X).

The DIP switch configures the last byte of the IP address and may be used for IP address assignment (DHCP, BootP, static).

The coupler is designed for fieldbus communication in EtherNet/IP networks. It also supports a wide variety of standard ETHERNET protocols (e.g., HTTP(S), BootP, DHCP, DNS, SNMP, (S)FTP). An integrated Webserver provides user configuration options, while displaying the coupler's status information.

The system supply is provided directly by the coupler. The field supply is provided via a separate supply module.

## Data

### Technical Data

Communication

EtherNet/IP™

ETHERNET protocols

HTTP(S)

BootP

Subject to changes. Please also observe the further product documentation!



|                                                       |                                                                                                                                                                    |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | DHCP<br>DNS<br>SNTP<br>(S)FTP<br>SNMP                                                                                                                              |
| Baud rate                                             | 10/100 Mbit/s                                                                                                                                                      |
| Transmission medium                                   | Twisted Pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length                                                                                                      |
| Transmission performance                              | Class D per EN 50173                                                                                                                                               |
| Number of modules per node (max.)                     | 250                                                                                                                                                                |
| Number of modules without a bus extension (max.)      | 64                                                                                                                                                                 |
| Configuration options                                 | WAGO-I/O-CHECK<br>Web-based management                                                                                                                             |
| Input and output (fieldbus) process image (max.)      | 1020 Worte/1020 Worte                                                                                                                                              |
| Supply voltage (system)                               | DC 24 V(-25 ... +30 %); via pluggable connector                                                                                                                    |
| Power consumption (5 V system supply)                 | 350 mA                                                                                                                                                             |
| Total current (system supply)                         | 700 mA                                                                                                                                                             |
| Input current (typ.) at nominal load (24 V)           | 280 mA                                                                                                                                                             |
| Power supply efficiency (typ.) at nominal load (24 V) | 90 %                                                                                                                                                               |
| Isolation                                             | 500 V system/field                                                                                                                                                 |
| Indicators                                            | LED (LINK/ACT) green: Network connection via ports 1 ... 2; LED (MS, NS) red/green: Status of node, network; LED (I/O) red/green /orange: Status of local data bus |

## Connection data

|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| Connection technology: communication/fieldbus | EtherNet/IP: 2 x RJ-45                       |
| Connection technology: system supply          | 2 x CAGE CLAMP®                              |
| Connection technology: Device configuration   | 1 x Male connector; 4-pole                   |
| Connection type (1)                           | System supply                                |
| Solid conductor                               | 0,08 ... 2,5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor                       | 0,08 ... 2,5 mm <sup>2</sup> / 28 ... 14 AWG |
| Strip length                                  | 8 ... 9 mm / 0.31 ... 0.35 inch              |

## Geometrical Data

|                                    |                      |
|------------------------------------|----------------------|
| Width                              | 49,5 mm / 1.949 inch |
| Height                             | 71,9 mm / 2.831 inch |
| Height from upper-edge of DIN-rail | 64,7 mm / 2.547 inch |
| Depth                              | 96,8 mm / 3.811 inch |

Subject to changes. Please also observe the further product documentation!



## Mechanical data

|               |             |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

## Material Data

|                  |                              |
|------------------|------------------------------|
| Housing material | Polycarbonate, polyamide 6.6 |
| Weight           | 104.1 g                      |

## Environmental Requirements

|                                                                                    |                                       |
|------------------------------------------------------------------------------------|---------------------------------------|
| Surrounding air temperature (operation)                                            | 0 ... 55 °C                           |
| Surrounding air temperature (storage)                                              | -40 ... 85 °C                         |
| Protection type                                                                    | IP20                                  |
| Pollution degree (5)                                                               | 2 per IEC 61131-2                     |
| Operating altitude                                                                 | 0 ... 2000 m                          |
| Mounting position                                                                  | horizontal (standing/lying); vertical |
| Relative humidity (without condensation)                                           | 95 %                                  |
| Vibration resistance                                                               | 4g per IEC 60068-2-6                  |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                |
| EMC immunity to interference                                                       | per EN 61000-6-2, marine applications |
| EMC emission of interference                                                       | per EN 61000-6-3, marine applications |
| Exposure to pollutants                                                             | Per IEC 60068-2-42 and IEC 60068-2-43 |
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm                                |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm                                |

## Commercial data

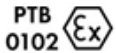
|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4055143889827 |
| Customs tariff number | 85371091990   |

## Approvals / Certificates

### Ex-Approvals

| Logo | Approval                    | Additional Approval Text | Certificate name      |
|------|-----------------------------|--------------------------|-----------------------|
|      | ATEX<br>TUEV Nord Cert GmbH | EN 60079                 | TUEV_14_ATEX_148929_X |

Subject to changes. Please also observe the further product documentation!



**IECEX**  
TUEV Nord Cert GmbH

IEC 60079-0

IECEX\_TUN\_14.0035\_X



**UL**  
Underwriters Laboratories Inc. (HAZARDOUS  
LOCATIONS)

UL 121201

E198726 Sec.1

#### Country specific Approvals

| Logo                                                                             | Approval                                    | Additional Approval Text | Certificate name            |
|----------------------------------------------------------------------------------|---------------------------------------------|--------------------------|-----------------------------|
|  | <b>KC</b><br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>FBC750 |

#### Ship Approvals

| Logo                                                                               | Approval                                                | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|------------------|
|  | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1821926 |
|  | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194       |
|  | <b>RINA</b><br>RINA Germany GmbH                        | -                        | ELE066419XG      |

#### UL-Approvals

| Logo                                                                               | Approval                                                            | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>Underwriters Laboratories Inc. (ORDINARY<br>LOCATIONS) | UL 61010-2-201           | E175199<br>Sec11 |

Subject to changes. Please also observe the further product documentation!

## Counterpart

## Compatible products

### Carrier rail

**Item no.: 210-112**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm

**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715

**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715

**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm

**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

**Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715

**Item no.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

**Item no.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715

**Item no.: 210-505**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715

**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715

**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715

### General accessories

Subject to changes. Please also observe the further product documentation!



**Item no.: 750-921**  
Bluetooth® Adapter; light gray



**Item no.: 750-923**  
Configuration cable; USB connector; Length: 2.5 m; black



**Item no.: 750-923/000-001**  
Configuration cable; USB connector; Length: 5 m

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#### wiring and connectors

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**Item no.: 750-975**  
ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly; light gray



**Item no.: 750-977/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22



**Item no.: 750-977/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22



**Item no.: 750-977/000-021**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24



**Item no.: 750-977/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24



**Item no.: 750-978/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief



**Item no.: 750-978/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief



**Item no.: 750-978/000-021**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief



**Item no.: 750-978/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief



**Item no.: 750-979/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief



**Item no.: 750-979/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

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Subject to changes. Please also observe the further product documentation!



**Item no.: 750-979/000-021**

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief



**Item no.: 750-979/000-022**

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief

#### Marking accessories



**Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item no.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



**Item no.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



**Item no.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item no.: 2009-145/000-007**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item no.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item no.: 2009-145/000-023**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item no.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item no.: 248-501**

Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card



**Item no.: 248-501/000-002**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow



**Item no.: 248-501/000-005**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

Subject to changes. Please also observe the further product documentation!



**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



**Item no.: 248-501/000-007**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray



**Item no.: 248-501/000-012**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



**Item no.: 248-501/000-017**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



**Item no.: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

#### system box



**Item no.: 850-804**

IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip



**Item no.: 850-804/000-001**

IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip



**Item no.: 850-805**

IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip



**Item no.: 850-814/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate



**Item no.: 850-815/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate



**Item no.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate



**Item no.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate



**Item no.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

Subject to changes. Please also observe the further product documentation!

|                                                                                    |                                                                                                                                          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Item no.: 850-826</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          |
|    | <b>Item no.: 850-826/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip  |
|    | <b>Item no.: 850-827</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          |
|    | <b>Item no.: 850-827/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip  |
|    | <b>Item no.: 850-828</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip         |
|    | <b>Item no.: 850-828/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip |
|    | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               |
|  | <b>Item no.: 850-835</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          |
|  | <b>Item no.: 850-836</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          |

#### shield connection

|                                                                                    |                                                                                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  | <b>Item no.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm  |
|  | <b>Item no.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm |
|  | <b>Item no.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm |
|  | <b>Item no.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                          |
|  | <b>Item no.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm                                  |
|  | <b>Item no.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm                                 |
|  | <b>Item no.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm                                   |

Subject to changes. Please also observe the further product documentation!



## Downloads

### Documentation

#### Manual

FC EtherNet/IP; G4; ECO

Fieldbus Coupler EtherNet/IP, Generation 4, ECO

V 1.0.2

Mar 25, 2020

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#### System Description

750/753 Series I/O-System – General Product Information

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Design Notes

V 2.0.0

Basic conditions and recommendations for higher operational safety

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Overview on WAGO-I/O-SYSTEM 750 approvals

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Use in Hazardous Environments

V 1.0.0

Term definition, marking and installation regulations

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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

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## Runtime Software

#### Firmware

Firmware: 750-363 Fieldbus Coupler EtherNet/IP; 4th generation; ECO; -

05

Feb 11, 2020

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## Device Files

#### Device Description File

750-919; EDS file for Ethernet/IP / 750-363, 750-823, 750-893

1.0

Sep 9, 2019

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## Installation Notes

Subject to changes. Please also observe the further product documentation!



## Product family

**750/753 Series – I/O System**

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!