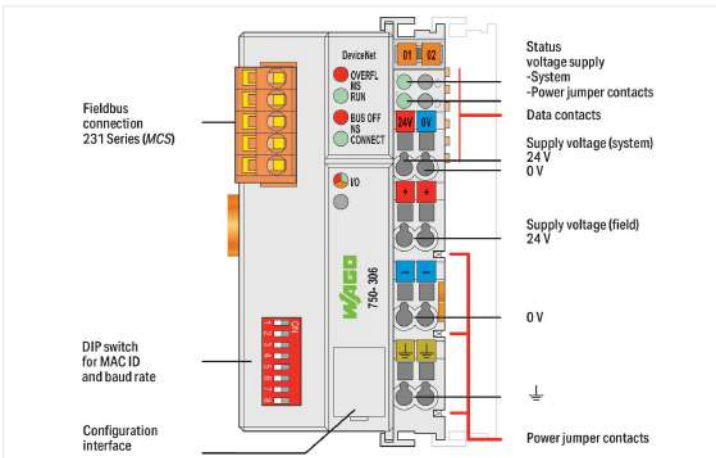


Color: ■ light gray



This fieldbus coupler connects the WAGO I/O System as a slave to the DeviceNet fieldbus.

The fieldbus coupler detects all connected I/O modules and creates a local process image. Analog and specialty module data is sent via words and/or bytes; digital data is sent bit by bit.

The process image can be transferred via the DeviceNet fieldbus to the memory of the control system.

The local process image is divided into two data zones containing the data received and the data to be sent. The process data can be sent via the DeviceNet™ to a control system for further processing. The process output data is sent via DeviceNet™.

The data of the analog modules is stored in the process image that is created automatically according to the order in which the modules are connected to the coupler. The bits of the digital modules are sent byte by byte and added to the analog data. If the amount of digital I/O information exceeds eight bits, the coupler automatically starts with a new byte.

**Notes**

Note: **Configuration files required (EDS)!**

### Technical data

|   |  |
|---|--|
| Communication   | DeviceNet  |
| Number of fieldbus nodes on master (max.)             | 64   |
| Number of I/O points                                  | 6000   |
| Baud rate   | 500 kBd (125 kBd, 250 kBd, 500 kBd)  |
| Bus segment length (max.)                             | 500 m  |
| Transmission medium                                   | Shielded Cu cable; Remote bus cable: 2 x 0.82 mm <sup>2</sup> + 2 x 1.7 mm <sup>2</sup> ; Drop cable: 2 x 0.2 mm <sup>2</sup> + 2 x 0.32 mm <sup>2</sup> |
| Number of modules per node (max.)                     | 64   |
| DeviceNet features                                    | Polled I/O Message Connection<br>Strobed I/O Message Connection<br>Change of State<br>Cyclic Message Connection<br>Group 2 only Slave                    |
| Input and output process image (fieldbus) max.        | 512 bytes/512 bytes  |
| Supply voltage (system)                               | 24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP <sup>®</sup> connection)   |
| Current consumption (5 V system supply)               | 350 mA   |
| Total current (system supply)                         | 1650 mA  |
| Supply voltage (field)                                | 24 VDC (-25 ... +30 %); via power jumper contacts  |
| Input current via DeviceNet interface at 11 V         | 120 mA   |
| Input current (typ.) at nominal load (24 V)           | 500 mA   |
| Power supply efficiency (typ.) at nominal load (24 V) | 87 %   |
| Isolation   | 500 V system/field   |
| Number of outgoing power jumper contacts              | 3  |
| Current carrying capacity (power jumper contacts)     | 10 A   |
| Certification   | ODVA   |

### Connection data

|   |  |
|---|--|
| Connection technology: communication/fieldbus | DeviceNet: 1 x Male connector; 5-pole        |
| Connection technology: field supply           | 6 x CAGE CLAMP <sup>®</sup>                  |
| Connection technology: system supply          | 2 x CAGE CLAMP <sup>®</sup>                  |
| Connection technology: device configuration   | 1 x Male connector; 4-pole                   |
| Connection type 1                             | System/field 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 inches            |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 50.5 mm / 1.988 inches |
| Height                            | 100 mm / 3.937 inches  |
| Depth                             | 71.1 mm / 2.799 inches |
| Depth from upper-edge of DIN-rail | 63.9 mm / 2.516 inches |

### Mechanical data

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

### Material data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 3.441 MJ                     |
| Weight             | 200 g                        |
| Conformity marking | CE                           |

### Environmental requirements

|  |                                       |
|--|---------------------------------------|
| Ambient temperature (operation)  | 0 ... +55 °C                          |
| Ambient temperature (storage)  | -25 ... +85 °C                        |
| Protection type  | IP20                                  |
| Pollution degree   | 2 per IEC 61131-2                     |
| Operating altitude   | 0 ... 2000 m / 0 ... 6562 ft          |
| 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 61000-6-4, 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

|                       |                 |
|-----------------------|-----------------|
| Product Group         | 15 (I/O System) |
| eCl@ss 10.0           | 27-24-26-07     |
| eCl@ss 9.0            | 27-24-26-07     |
| ETIM 8.0              | EC001603        |
| ETIM 7.0              | EC001603        |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4045454526542   |
| Customs tariff number | 85176200000     |

### Environmental Product Compliance

|   |   |
|---|---|
| CAS-No.                                   | 11120-22-2<br>12060-00-3<br>1303-86-2<br>1317-36-8<br>7439-92-1<br>79-94-7  |
| REACH Candidate List Substance            | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol<br>Diboron trioxide<br>Lead<br>Lead monoxide<br>Lead silicate<br>Lead titanium oxide (PbTiO <sub>3</sub> ) |
| RoHS Compliance Status                    | Compliant,With Exemption  |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II   |
| SCIP notification number (Bulgaria)       | 4365a4e4-9a4e-4aee-b117-77bf19263494  |
| SCIP notification number (Czech Republic) | dc6ca823-3fba-4de8-8db7-1d7b8eb538d3  |

### Approvals / Certificates

General approvals



| Approval  | Standard               | Certificate Name                |
|---|------------------------|---------------------------------|
| EAC<br>Brjansker Zertifizierungsstelle                    | TP TC 020/2011         | EAC RU C-DE.AM02.<br>B.00087/19 |
| KC<br>National Radio Research Agency                      | Article 58-2, Clause 3 | MSIP-REM-W43-FBC750             |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508                 | E175199 Sec.1                   |

Declarations of conformity and manufacturer's declarations

| Approval   | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for marine applications



| Approval  | Standard             | Certificate Name  |
|---|----------------------|-------------------|
| ABS<br>American Bureau of Shipping                    | -                    | 22-2219060        |
| BSH<br>Bundesamt fuer Seeschifffahrt und Hydrographie | -                    | 1104              |
| BV<br>Bureau Veritas S.A.                             | -                    | 13453/E0 BV       |
| DNV<br>DNV GL SE                                      | DNV-CG-0339,Aug.2021 | TAA0000194        |
| KR<br>Korean Register of Shipping                     | -                    | KR HMB05880-AC001 |
| LR<br>Lloyds Register EMEA                            | -                    | LR22180952TA      |
| PRS<br>Polski Rejestr Statków                         | -                    | TE/2236/880590/19 |
| RINA<br>RINA Germany GmbH                             | -                    | ELE343521XG001    |

Approvals for hazardous areas



| Approval                                 | Standard                        | Certificate Name                                     |
|--|---------------------------------|--|
| ATEX<br>TUEV Nord Cert GmbH              | EN 60079-0                      |  |
| CCC<br>CNEX                              | CNCA-C23-01                     | 2020312310000213 (Ex ec IIC T4 Gc)                   |
| EAC<br>Brjansker Zertifizierungsstelle   | TP TC 012/2011                  | EAC RU C-DE.AM02.<br>B.00163/19 (2Ex nA IIC T4 Gc X) |
| IECEX<br>TUEV Nord Cert GmbH             | IEC 60079-0                     | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)                |
| INMETRO<br>TUV Rheinland do Brasil Ltda. | IEC 60079-0                     | BR-Ex_TUV 12.1297 X                                  |
| KTL<br>Korea Testing Laboratory          | KOSHA Article 34,<br>IEC60079-0 | 20-KA4BO-0095X                                       |
| UKEx<br>WAGO GmbH & Co. KG               | EN 60079-0                      | UKCA_WA<br>GO22UKEX003X_ec                           |

Downloads

Environmental Product Compliance

|  |
|--|
| Compliance Search                        |
| Environmental Product Compliance 750-306 |

Documentation

| Manual                                     |                       |                   |                   |
|--|-----------------------|-------------------|-------------------|
| Product Manual Device-Net Fieldbus Coupler | V 2.0.0               | pdf<br>4464.98 KB | <a href="#">↓</a> |
| System Manual WAGO I/O System 750/753      | V 3.3.0<br>04.05.2023 | pdf<br>8548.45 KB | <a href="#">↓</a> |
| System Manual Series 750/753               |                       |                   | <a href="#">↓</a> |

| System Description                                      |  |                  |                   |
|---|--|------------------|-------------------|
| 750/753 Series I/O-System – General Product Information |  | pdf<br>953.35 KB | <a href="#">↓</a> |
| Overview on WAGO-I/O-SYSTEM 750 approvals               |  | pdf<br>770.48 KB | <a href="#">↓</a> |

| Bid Text |            |                 |                   |
|----------|------------|-----------------|-------------------|
| 750-306  | 19.02.2019 | xml<br>6.79 KB  | <a href="#">↓</a> |
| 750-306  | 21.07.2017 | doc<br>30.00 KB | <a href="#">↓</a> |

| Instruction Leaflet             |            |                  |                   |
|---------------------------------|------------|------------------|-------------------|
| CCC Ex (Additional information) | 26.04.2023 | pdf<br>159.76 KB | <a href="#">↓</a> |

### Application Notes

| Application note, other  |                     |                  |                   |
|--|---------------------|------------------|-------------------|
| WAGO I/O Device Net Coupler with AB SCL500 (a100102)                           | 1.0.0<br>27.07.2011 | zip<br>374.53 KB | <a href="#">↓</a> |
| WAGO I/O Device Net Coupler with AB ControlLogix (a100103)                     | 1.0.0<br>19.03.2012 | zip<br>374.86 KB | <a href="#">↓</a> |
| Altering Attributes in the DeviceNet coupler 750-306 Version 3.0 (a207000)     | 1.0.0<br>31.05.2011 | zip<br>225.35 KB | <a href="#">↓</a> |
| Inbetriebnahme einer Omron SPS mit einem WAGO DeviceNet Feldbuskoppler a201703 | 1.0.0<br>31.05.2011 | zip<br>702.12 KB | <a href="#">↓</a> |

### CAD/CAE-Data

| CAD data             |                   |
|----------------------|-------------------|
| 2D/3D Models 750-306 | <a href="#">↓</a> |

| CAE data                  |                   |
|---------------------------|-------------------|
| EPLAN Data Portal 750-306 | <a href="#">↓</a> |
| WSCAD Universe 750-306    | <a href="#">↓</a> |
| ZUKEN Portal 750-306      | <a href="#">↓</a> |

### Runtime Software

| Firmware                            |                    |                  |                   |
|-------------------------------------|--------------------|------------------|-------------------|
| 0750-0306, Feldbuskoppler DeviceNet | V 04<br>18.10.2021 | zip<br>467.43 KB | <a href="#">↓</a> |

### Device Files

| Device Driver                                      |                       |                   |  |
|--|-----------------------|-------------------|--|
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0<br>10.09.2014 | zip<br>4721.96 KB |  |

## Libraries

| Device Description File  |                  |                 |  |
|--|------------------|-----------------|--|
| 750-912; EDS-Dateien für DeviceNet / Serie 750, 752, 755 und 767 | 10<br>25.03.2011 | zip<br>66.70 KB |  |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Communication

##### 1.1.1.1 Communication cable



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

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

#### 1.1.2 DIN-rail

##### 1.1.2.1 Mounting accessories



**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.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

**Item No.: 210-508**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; 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; silver-colored



**Item No.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

**Item No.: 210-114**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

**Item No.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

**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; silver-colored



**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; silver-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; silver-colored

**Item No.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

**Item No.: 210-505**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

#### 1.1.3 Marking

1.1.3.1 Group marker carrier



**Item No.: 750-106**  
Group marker carrier

1.1.3.2 Marker



**Item No.: 750-100**  
Marker card; as a DIN A4 sheet; plain

**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.: 2009-145/000-023**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 2009-145/000-012**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item No.: 2009-145/000-005**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

**Item No.: 2009-145/000-024**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**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.: 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.: 248-501/000-023**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



**Item No.: 248-501/000-017**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

**Item No.: 248-501/000-012**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

**Item No.: 248-501/000-005**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

**Item No.: 248-501/000-024**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



**Item No.: 248-501**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

**Item No.: 248-501/000-002**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

1.1.3.3 Marker carrier



**Item No.: 750-103**  
Group marker carrier

1.1.4 Shield termination

1.1.4.1 Shield clamping saddles



**Item No.: 790-108**  
Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm



**Item No.: 790-208**  
Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm



**Item No.: 790-116**  
Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm



**Item No.: 790-216**  
Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm



**Item No.: 790-124**  
Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm



**Item No.: 790-220**  
Shield clamping saddle; 30 mm wide; 6 ... 20 mm



**Item No.: 790-140**  
Shield clamping saddle; diameter of compatible conductor

1.1.5 System enclosure

1.1.5.1 System enclosure



**Item No.: 850-825**

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



**Item No.: 850-826**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip



**Item No.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip



**Item No.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip



**Item No.: 850-826/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip



**Item No.: 850-827/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip



**Item No.: 850-828/002-000**

IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip



**Item No.: 850-834**

IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20



**Item No.: 850-835**

IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip



**Item No.: 850-836**

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 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