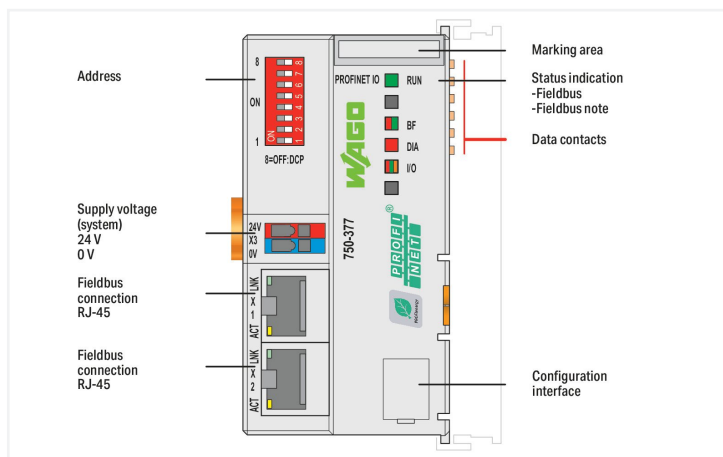


Color: ■ light gray

Similar to illustration



This fieldbus coupler connects the WAGO I/O System 750 to PROFINET IO (open, real-time Industrial ETHERNET automation standard). The coupler identifies the connected I/O modules and creates local process images for one I/O controller and one I/O supervisor according to preset configurations. This process image may include a mixed arrangement of analog (word-by-word data transfer) or complex modules and digital (bit-by-bit data transfer) modules. The fieldbus coupler operates as an I/O device in the network. It features an integrated 2-port switch, simplifying the creation of a line structure without additional network components. The device name can be assigned via DCP protocol or a default name can be instantiated via DIP switch.

### Technical data

|   |  |
|---|--|
| Communication   | PROFINET IO  |
| Device-specific                                       | Supported profiles: PROFIsafe V2, PROFInergy V1.0; ID code: Vendor ID: 0x011D; Device ID: 0x02EE; Module ID: 0x01000177 (firmware version 01, 02), 0x02000177 (from firmware version 03) |
| Baud rate   | 10/100 Mbit/s (10 Mbit/s (ETHERNET protocols), 100 Mbit/s full duplex (PROFINET IO))   |
| Bus segment length (max.)                             | 100 m  |
| Transmission medium                                   | Twisted pair S-UTP; 100 Ω; Cat. 5  |
| Number of modules per node (max.)                     | 64   |
| Input and output process image (fieldbus) max.        | 256 bytes/256 bytes  |
| Supply voltage (system)                               | 24 VDC (-25 ... +30 %); via pluggable connector  |
| Current consumption (5 V system supply)               | 450 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   |

### Connection data

|   |  |
|---|--|
| Connection technology: communication/fieldbus | PROFINET IO: 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 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor                       | 0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Strip length                                  | 5 ... 6 mm / 0.2 ... 0.24 inches             |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 49.5 mm / 1.949 inches |
| Height                            | 96.8 mm / 3.811 inches |
| Depth                             | 71.9 mm / 2.831 inches |
| Depth from upper-edge of DIN-rail | 64.7 mm / 2.547 inches |

### Mechanical data

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

### Material data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 1.45 MJ                      |
| Weight             | 79.9 g                       |
| Conformity marking | CE                           |

### Environmental requirements

|  |   |
|--|---|
| Ambient temperature (operation)  | -20 ... +60 °C  |
| Ambient temperature (storage)  | -40 ... +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 %  |
| Relative humidity (with condensation)  | Short-term condensation per Class 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of -20 to +60 °C (except for wind-driven precipitation, water and ice formation) |
| 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

|                       |               |
|-----------------------|---------------|
| 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                  | 4055143039369 |
| Customs tariff number | 8517620000    |

### Environmental Product Compliance

|   |  |
|---|--|
| CAS-No.                                   | 1303-86-2<br>1317-36-8<br>693-98-1<br>7439-92-1                |
| REACH Candidate List Substance            | 2-methylimidazole<br>Diboron trioxide<br>Lead<br>Lead monoxide |
| RoHS Compliance Status                    | Compliant,With Exemption                                       |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II                              |
| SCIP notification number (Austria)        | 2b3c31ee-153f-4ae4-aabf-9afd3e1c51e3                           |
| SCIP notification number (Belgium)        | 0f341bd2-c1aa-459c-a12a-65132929e1f3                           |
| SCIP notification number (Bulgaria)       | e8be251a-df80-4ccb-984e-5b50811c91f8                           |
| SCIP notification number (Czech Republic) | f61fa6e1-c21f-497c-b1ff-61575b15c102                           |
| SCIP notification number (Denmark)        | 4ca5da0e-57f8-40d9-ba49-f855539eaf12                           |
| SCIP notification number (Finland)        | c9e003b0-f162-444c-9a80-e31fdf51eb0e                           |
| SCIP notification number (France)         | 3ed0fc6d-82bf-4871-99ec-4f64eba3ee75                           |
| SCIP notification number (Germany)        | 6b9fecea-b750-4dfb-938f-bc1aa055021d                           |
| SCIP notification number (Italy)          | 956d0147-5a94-4f2c-90c1-cc24cd3a51ab                           |
| SCIP notification number (Netherlands)    | 39f12ac7-e7fc-4121-bd2b-b0f27b112071                           |
| SCIP notification number (Poland)         | 27048b93-5fe4-4dcf-b7a8-c2062fb9ae6e                           |
| SCIP notification number (Romania)        | b3ae85ed-b95f-43b8-b12d-4db847f23ce3                           |
| SCIP notification number (Sweden)         | b016dcfc-4512-49b6-b75b-892ffe25d074                           |

### Approvals / Certificates

#### General approvals



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

#### Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



| Approval  | Standard             | Certificate Name  |
|---|----------------------|-------------------|
| ABS<br>American Bureau of Ship-<br>ping                         | -                    | 22-2227356-PDA    |
| BSH<br>Bundesamt fuer See-<br>schifffahrt und Hydrogra-<br>phie | -                    | 1104              |
| DNV<br>DNV Germany GmbH   | DNV-CG-0339,Aug.2021 | TAA00001J4        |
| LR<br>Lloyds Register   | -                    | LR22194334TA      |
| PRS<br>Polski Rejestr Statków                                   | -                    | TE/2237/880590/19 |

Approvals for hazardous areas



| Approval   | Standard       | Certificate Name                                       |
|--|----------------|--|
| ATEX<br>TUEV Nord Cert GmbH  | EN 60079-0     | TUEV14ATEX148929X (II<br>3 G Ex ec IIC T4 Gc)          |
| CCCEX<br>CQST/CNEx   | CNCA-C23-01    | 2020312310000213 (Ex<br>ec IIC T4 Gc)                  |
| EAC<br>Brjansker Zertifizierungs-<br>stelle                        | TP TC 012/2011 | EAC RU C-DE.AM02.<br>B.00163/19 (2Ex e IIC T4<br>Gc X) |
| IECEX<br>TUEV Nord Cert GmbH                                       | IEC 60079-0    | IECEX TUN 14.0035 X (Ex<br>ec IIC T4 Gc)               |
| INMETRO<br>TUV Rheinland do Brasil<br>Ltda.                        | IEC 60079-0    | BR-Ex_TUV 12.1297 X                                    |
| UKEx<br>WAGO GmbH & Co. KG   | EN 60079-0     | UKCA_WA<br>GO22UKEX003X_ec                             |
| UL<br>Underwriters Laboratories<br>Inc. (HAZARDOUS LOCA-<br>TIONS) | UL 121201      | E198726 Sec.1  |

Downloads

Environmental Product Compliance

| Compliance Search  |
|--|
| Environmental Product<br>Compliance<br>750-377/025-000 <a href="#">↓</a> |

Documentation

| Manual   |                       |                   |                   |
|--|-----------------------|-------------------|-------------------|
| System Manual WAGO<br>I/O System 750/753                         | V 3.3.3<br>29.08.2023 | pdf<br>8512.61 KB | <a href="#">↓</a> |
| System Manual Series<br>750/753                                  |                       |                   | <a href="#">↓</a> |
| Product Manual PROFI-<br>NET IO advanced ECO<br>Fieldbus Coupler | V 1.3.1<br>17.08.2020 | pdf<br>7755.31 KB | <a href="#">↓</a> |

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

| Bid Text        |            |                 |                   |
|-----------------|------------|-----------------|-------------------|
| 750-377/025-000 | 21.07.2017 | doc<br>31.50 KB | <a href="#">↓</a> |
| 750-377/025-000 | 19.02.2019 | xml<br>6.81 KB  | <a href="#">↓</a> |

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

## CAD/CAE-Data

| CAD data                        | CAE data                             |
|---------------------------------|--------------------------------------|
| 2D/3D Models<br>750-377/025-000 | EPLAN Data Portal<br>750-377/025-000 |
|                                 | WSCAD Universe<br>750-377/025-000    |
|                                 | ZUKEN Portal<br>750-377/025-000      |

## Runtime Software

| Firmware              |            |           |  |
|-----------------------|------------|-----------|--|
| 0750-0377/0025-0000,  | V 11       | zip       |  |
| Feldbuskoppler PROFI- | 24.01.2023 | 879.94 KB |  |
| NET IO                |            |           |  |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Cables and connectors

##### 1.1.1.1 Connector plug



**Item No.: 750-979/000-013**  
 Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief

**Item No.: 750-977/000-013**  
 Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

**Item No.: 750-978/000-013**  
 Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

**Item No.: 750-976**  
 PROFINET RJ-45 connector, IP20; ETHER-NET 10/100 Mbit/s; for field assembly

#### 1.1.2 Communication

##### 1.1.2.1 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

#### 1.1.3 DIN-rail

##### 1.1.3.1 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

### 1.1.3.1 Mounting accessories



**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

### 1.1.4 Marking

#### 1.1.4.1 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

### 1.1.5 Shield termination

#### 1.1.5.1 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

## 1.1.6 System enclosure

## 1.1.6.1 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); Wx-  
HxD (164x100x164 mm); 9 x M12, 4 x M20

**Item No.: 850-835**

IP65 enclosure; Polyester (RAL 7032); Wx-  
HxD (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 flan-  
ge plate

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

IP65 enclosure; Sheet steel (RAL 7035);  
WxHxD (300x120x200 mm); without flan-  
ge plate

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

IP65 enclosure; Sheet steel (RAL 7035);  
WxHxD (400x120x200 mm); without flan-  
ge plate

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

IP65 enclosure; Sheet steel (RAL 7035);  
WxHxD (600x120x200 mm); without flan-  
ge plate