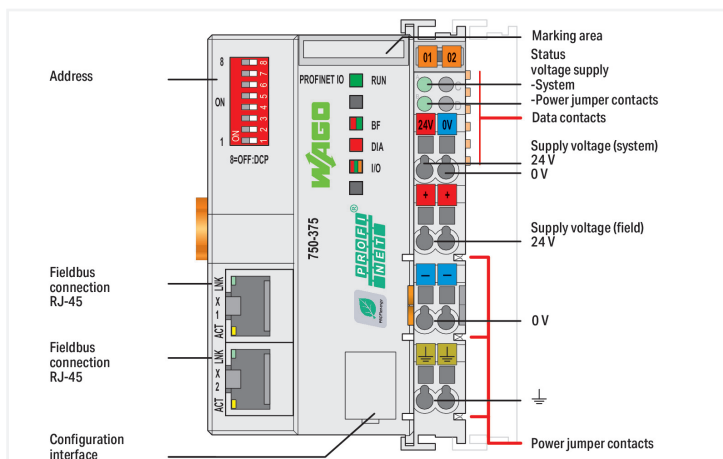


Color: ■ light gray

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 maximum two I/O controllers 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                                   |  |
|--|--|
| Communications                                   | 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) |
| PROFINET IO features                             | Integrated 2-port switch; Auto-negotiation, Auto-MDIX; Isochronous Real Time Communication; Send clock: 1 ms (RT); 1, 2, 4 ms (IRT); Coupler replacement without programming tool        |
| Transmission 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 (communication/fieldbus)     | Twisted pair S-UTP; 100 Ω; Cat. 5  |
| Number of modules per node (max.)                | 250  |
| Number of modules without a bus extension (max.) | 64   |

### Technical data

|   |  |
|---|--|
| Input and output process image (fieldbus) max.        | 512 bytes/512 bytes  |
| Supply voltage (system)                               | 24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection) |
| Current consumption (5 V system supply)               | 450 mA   |
| Total current (system supply)                         | 1700 mA  |
| Supply voltage (field)                                | 24 VDC (-25 ... +30 %); via power jumper contacts                        |
| Input current (typ.) at nominal load (24 V)           | 500 mA   |
| Power supply efficiency (typ.) at nominal load (24 V) | 90 %   |
| Isolation   | 500 V system/field   |
| Number of outgoing power jumper contacts              | 3  |
| Current carrying capacity (power jumper contacts)     | 10 A   |

### Connection Data

|   |  |
|---|--|
| Connection technology: communication/fieldbus | PROFINET IO: 2 x RJ-45                       |
| Connection technology: field supply           | 6 x CAGE CLAMP®                              |
| Connection technology: system supply          | 2 x CAGE CLAMP®                              |
| Connectable conductor materials               | Copper                                       |
| Connection type                               | 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            |
| Connection technology: device configuration   | 1 x Male connector; 4-pole                   |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 61.5 mm / 2.421 inches |
| Height                            | 100 mm / 3.937 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          | 1.694 MJ                     |
| Weight             | 131.2 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 left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom  |
| 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  |

**Environmental requirements**

|  |                                       |
|--|---------------------------------------|
| 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**

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4055143039352 |
| Customs tariff number | 85176200000   |

**Product Classification**

|             |                      |
|-------------|----------------------|
| UNSPSC      | 32151705             |
| eCl@ss 10.0 | 27-24-26-07          |
| eCl@ss 9.0  | 27-24-26-07          |
| ETIM 9.0    | EC001603             |
| ETIM 10.0   | EC001603             |
| ECCN        | NO US CLASSIFICATION |

**Environmental Product Compliance**

|   |   |
|---|---|
| CAS-No.                                   | 12060-00-3<br>1303-86-2<br>1317-36-8<br>25550-51-0<br>693-98-1<br>7439-92-1<br>79-94-7  |
| REACH Candidate List Substance            | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol<br>2-methylimidazole<br>4-Methyl-1,2-cyclohexanedicarboxylic anhydride<br>Diboron trioxide<br>Lead<br>Lead monoxide<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)       | b206524a-dc47-425d-9761-b68b90e44edc  |
| SCIP notification number (Czech Republic) | 6b54819f-de17-47cb-83e8-d44d206ccea   |

**Approvals / Certificates**

| General approvals                    |                        |                     | General approvals                                   |        |         |
|--------------------------------------|------------------------|---------------------|---|--------|---------|
|                                      |                        |                     | UL  | UL 508 | E175199 |
|                                      |                        |                     | Underwriters Laboratories Inc. (ORDINARY LOCATIONS) |        |         |
| Approval                             | Standard               | Certificate Name    |   |        |         |
| EAC<br>GZO Almaty Standart           | TP TC 020/2011         | EAC CoC 03083       |   |        |         |
| KC<br>National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-FBC750 |   |        |         |

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                    | -                      | 22-2227356-PDA    |
| BSH<br>Bundesamt fuer Seeschifffahrt und Hydrographie | -                      | 1104              |
| DNV<br>DNV Germany GmbH                               | DNV-CG-0339, Aug. 2021 | TAA00001J4        |
| LR<br>Lloyds Register                                 | -                      | LR2475997TA       |
| PRS<br>Polski Rejestr Statków                         | -                      | TE/1102/880590/23 |

Approvals for hazardous areas



| Approval   | Standard    | Certificate Name                           |
|--|-------------|--|
| ATEX<br>TUEV Nord Cert GmbH                                | EN 60079-0  | TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc) |
| CCCEX<br>CQST/CNEX   | CNCA-C23-01 | 2020312310000213 (Ex ec IIC T4 Gc)         |
| IECEX<br>TUEV Nord Cert GmbH                               | IEC 60079-0 | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)      |
| INMETRO<br>TÜV Rheinland do Brasil Ltda.                   | IEC 60079-0 | TÜV 12.1297 X                              |
| UKEX<br>WAGO GmbH & Co. KG                                 | EN 60079-0  | UKCA_WA GO22UKEX003X_ec                    |
| UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201   | E198726                                    |

Downloads

Environmental Product Compliance

| Compliance Search                                   |
|---|
| Environmental Product Compliance<br>750-375/025-000 |



**Documentation**

| Manual   |                       |                   |                   |
|--|-----------------------|-------------------|-------------------|
| System Manual Series 750/753 <a href="#">↓</a>       |                       |                   |                   |
| Product Manual PROFINET IO advanced Fieldbus Coupler | V 1.3.1<br>17.08.2020 | pdf<br>7887.08 KB | <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        |            |                  |                   |
|-----------------|------------|------------------|-------------------|
| 750-375/025-000 | 21.07.2017 | docx<br>30.14 KB | <a href="#">↓</a> |
| 750-375/025-000 | 19.02.2019 | x81<br>7.19 KB   | <a href="#">↓</a> |

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

**CAD/CAE-Data**

| CAD data                                       |  |
|--|--|
| 2D/3D Models 750-375/025-000 <a href="#">↓</a> |  |

| CAE data  |  |
|---|--|
| EPLAN Data Portal 750-375/025-000 <a href="#">↓</a> |  |
| WSCAD Universe 750-375/025-000 <a href="#">↓</a>    |  |
| ZUKEN Portal 750-375/025-000 <a href="#">↓</a>      |  |

**Runtime Software**

| Firmware  |                    |                  |                   |
|---|--------------------|------------------|-------------------|
| 0750-0375/0025-0000, Feldbuskoppler PROFINET IO | V 11<br>24.01.2023 | zip<br>880.02 KB | <a href="#">↓</a> |

**Libraries**

| Device Description File       |                           |                   |                   |
|-------------------------------|---------------------------|-------------------|-------------------|
| Gerätebeschreibungen PROFINET | Version 3.4<br>15.11.2024 | zip<br>1533.35 KB | <a href="#">↓</a> |

## 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.: 750-923/000-001**  
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.: 210-197**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

**Item No.: 210-114**  
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.: 210-112**  
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.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

### 1.1.4 Marking

#### 1.1.4.1 Group marker carrier



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

#### 1.1.4.2 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

1.1.4.2 Marker







|   |  |   |  |
|---|--|---|--|
|  <p><b>Item No.: 2009-145/000-002</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</p> |  <p><b>Item No.: 248-501/000-006</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue</p>   |  <p><b>Item No.: 248-501/000-007</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray</p> |  <p><b>Item No.: 248-501/000-023</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green</p>  |
|  <p><b>Item No.: 248-501/000-017</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green</p>                             |  <p><b>Item No.: 248-501/000-012</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange</p> |  <p><b>Item No.: 248-501/000-005</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red</p>  |  <p><b>Item No.: 248-501/000-024</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet</p> |
|  <p><b>Item No.: 248-501</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white</p>   |  <p><b>Item No.: 248-501/000-002</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow</p> |   |  |

1.1.4.3 Marker carrier

|  |
|--|
|  <p><b>Item No.: 750-103</b><br/>Group marker carrier</p> |
|--|

1.1.5 Shield termination

1.1.5.1 Shield clamping saddles

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

1.1.6 System enclosure

1.1.6.1 System enclosure

|   |   |   |  |
|---|---|---|--|
|  <p><b>Item No.: 850-825</b><br/>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20</p>                              |  <p><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</p>         |  <p><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</p>          |  <p><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</p> |
|  <p><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</p> |  <p><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</p> |  <p><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</p> |  <p><b>Item No.: 850-834</b><br/>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20</p>                       |
|  <p><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</p>         |  <p><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</p>         |  <p><b>Item No.: 850-814/002-000</b><br/>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate</p>                 |  <p><b>Item No.: 850-815/002-000</b><br/>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate</p>         |

### 1.1.6.1 System enclosure



**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