



This fieldbus coupler connects the WAGO I/O System to PROFINET IO, the open Industrial ETHERNET automation standard. The fieldbus coupler detects all connected I/O modules and creates a local process image. This process image may include a mixed arrangement of analog (word-by-word data transfer) and digital (bit-by-bit data transfer) modules. The fieldbus coupler is integrated into the application as a PROFINET IO device.

The coupler features an integrated 2-port switch, allowing easy line structure creation without additional network components. The device name can be assigned via DCP protocol or a default name can be set via DIP switch.

#### Technical data

|                                                       |                                                                          |
|-------------------------------------------------------|--------------------------------------------------------------------------|
| Communications                                        | PROFINET IO                                                              |
| ETHERNET protocols                                    | DCP<br>SNMP<br>LLDP<br>HTTP                                              |
| Device-specific                                       | PROFINET IO (RT Class 1); Conformance Class B                            |
| Transmission rate                                     | 100 Mbit/s                                                               |
| Bus segment length (max.)                             | 100 m                                                                    |
| Transmission medium (communication/fieldbus)          | Twisted pair S-UTP; 100 Ω; Cat. 5                                        |
| Number of modules per node (max.)                     | 128                                                                      |
| Number of modules without a bus extension (max.)      | 64                                                                       |
| Input and output process image (fieldbus) max.        | 320 bytes/320 bytes                                                      |
| Supply voltage (system)                               | 24 VDC (-15 ... +20 %); via pluggable connector (CAGE CLAMP® connection) |
| Current consumption (5 V system supply)               | 300 mA                                                                   |
| Total current (system supply)                         | 1700 mA                                                                  |
| Supply voltage (field)                                | 24 VDC (-15 ... +20 %); via power jumper contacts                        |
| 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                                                                     |

#### 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®                   |
| Connection type                               | System/field supply               |
| Solid conductor                               | 0.08 ... 2.5 mm² / 28 ... 14 AWG  |
| Fine-stranded conductor                       | 0.08 ... 2.5 mm² / 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         | 50.5 mm / 1.988 inches |
| Height        | 71.1 mm / 2.799 inches |
| Depth         | 100 mm / 3.937 inches  |

| Mechanical data |             |
|-----------------|-------------|
| Mounting type   | DIN-35 rail |

| Material data      |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 3.295 MJ                     |
| Weight             | 189.5 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                                                                 | without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.) |
| Mounting position                                                                  | Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom              |
| Relative humidity (without condensation)                                           | 95 %                                                                                                                |
| Vibration resistance                                                               | Per IEC 60068-2-6                                                                                                   |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                                                                                              |
| EMC immunity to interference                                                       | per EN 61000-6-2                                                                                                    |
| EMC emission of interference                                                       | per EN 61000-6-3                                                                                                    |
| 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) |
| PU (SPU)                  | 1 pcs           |
| Packaging type            | Box             |
| Country of origin         | DE              |
| GTIN                      | 4045454548988   |
| Customs tariff number     | 85176200000     |
| End of Sale               | 2019-06-30      |
| End of Production         | 2019-07-05      |
| End of Delivery           | 2019-07-15      |
| End of Service and Repair | 2021-06-29      |



| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 32151705             |
| eCl@ss 10.0            | 27-24-26-07          |
| eCl@ss 9.0             | 27-24-26-07          |
| 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>7439-92-1<br>7440-43-9<br>79-94-7<br>80-43-3                                                                                                                                  |
| REACH Candidate List Substance            | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol<br>4-Methyl-1,2-cyclohexanedicarboxylic anhydride<br>Cadmium<br>Diboron trioxide<br>Lead<br>Lead monoxide<br>Lead titanium oxide (PbTiO3)<br>Peroxide, bis(1-methyl-1-phenylethyl) |
| 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)        | c819e3fc-4697-4954-a359-4b3df2089266                                                                                                                                                                                                |
| SCIP notification number (Belgium)        | bbba170f-cb61-4583-9719-00c89ef97e5e                                                                                                                                                                                                |
| SCIP notification number (Bulgaria)       | d775ccb6-98e4-4954-884b-a756d5b356fc                                                                                                                                                                                                |
| SCIP notification number (Czech Republic) | c85a573b-73b2-4279-bd4b-daba901f51df                                                                                                                                                                                                |
| SCIP notification number (Denmark)        | 393483d1-27f8-43bd-9698-da5e94886d7a                                                                                                                                                                                                |
| SCIP notification number (Finland)        | 837072a2-19fd-489b-96ac-78c71fa04ece                                                                                                                                                                                                |
| SCIP notification number (France)         | d9c5b0d0-e3ac-449c-8ca5-650c5b6a2552                                                                                                                                                                                                |
| SCIP notification number (Germany)        | ba96707a-5f06-499e-a24d-4ee4dc9ea558                                                                                                                                                                                                |
| SCIP notification number (Hungary)        | 17299ec7-6809-4a13-8406-5764e7848b6f                                                                                                                                                                                                |
| SCIP notification number (Italy)          | 733cbbc6-bd17-4b6e-b98e-949239302379                                                                                                                                                                                                |
| SCIP notification number (Netherlands)    | 36164f8c-ebdf-43b9-abc6-c071c7bea888                                                                                                                                                                                                |
| SCIP notification number (Poland)         | 0dfd221b-cf7f-4bd1-865a-42e2eab557e5                                                                                                                                                                                                |
| SCIP notification number (Romania)        | a0e61ed1-bc7d-4fe0-84b6-31a193e1fe0c                                                                                                                                                                                                |
| SCIP notification number (Sweden)         | 15715b34-bf69-4e32-9dbb-f676d0ad4172                                                                                                                                                                                                |

| Approvals / Certificates                                                           |                |                                                            |
|------------------------------------------------------------------------------------|----------------|------------------------------------------------------------|
| General approvals                                                                  |                | Declarations of conformity and manufacturer's declarations |
|  |                |                                                            |
| Approval                                                                           | Standard       | Certificate Name                                           |
| EAC<br>GZO Almaty Standart                                                         | TP TC 020/2011 | EAC CoC 03083                                              |

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



| Downloads                                |  |  |                   |
|------------------------------------------|--|--|-------------------|
| Environmental Product Compliance         |  |  |                   |
| Compliance Search                        |  |  |                   |
| Environmental Product Compliance 750-370 |  |  | <a href="#">↓</a> |

| Documentation                               |         |                                                         |                                       |
|---------------------------------------------|---------|---------------------------------------------------------|---------------------------------------|
| Manual                                      |         | System Description                                      |                                       |
| Product Manual PROFI-NET IO Fielbus Coupler | V 2.0.0 | pdf<br>7208.67 KB                                       | <a href="#">↓</a>                     |
|                                             |         | 750/753 Series I/O-System – General Product Information | pdf<br>953.35 KB<br><a href="#">↓</a> |
|                                             |         | Overview on WAGO-I/O-SYSTEM 750 approvals               | pdf<br>770.48 KB<br><a href="#">↓</a> |

| Application Notes                                                           |                     |                  |                   |
|-----------------------------------------------------------------------------|---------------------|------------------|-------------------|
| Application note SIEMENS                                                    |                     |                  |                   |
| Verwendung der WAGO GSD-Dateien für PRO-FIBUS DP und PROFI-NET IO (a100850) | 1.0.0<br>16.05.2017 | zip<br>667.37 KB | <a href="#">↓</a> |

| CAD/CAE-Data         |  |                           |                   |
|----------------------|--|---------------------------|-------------------|
| CAD data             |  | CAE data                  |                   |
| 2D/3D Models 750-370 |  | EPLAN Data Portal 750-370 | <a href="#">↓</a> |
|                      |  | WSCAD Universe 750-370    | <a href="#">↓</a> |
|                      |  | ZUKEN Portal 750-370      | <a href="#">↓</a> |

| Runtime Software                       |                    |                   |                   |
|----------------------------------------|--------------------|-------------------|-------------------|
| Firmware                               |                    |                   |                   |
| 0750-0370, Feldbus-koppler PROFINET IO | V 08<br>19.10.2021 | zip<br>2002.01 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                                                          |                   |                   |  |
|----------------------------------------------------------------------------------|-------------------|-------------------|--|
| 750-916; GSD files of version 2.x for PROFINET/ series 750/753, 765, 767 and 852 | 3.0<br>15.01.2023 | zip<br>2582.40 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); 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