



**Data sheet | Item number: 750-370**  
**Fieldbus Coupler PROFINET IO; 2nd Generation**

750-370



**Item description**

This fieldbus coupler connects to the WAGO-I/O-SYSTEM as a slave of the PROFINET IO, the open Industrial ETHERNET standard for automation.

The fieldbus coupler supports all I/O modules. The buscoupler automatically configures, creating a local process image which may include analog, digital or specialty modules. Analog and specialty module data is sent via words and/or bytes; digital data is sent bit by bit.

This buscoupler can integrate into the application as a PROFINET IO device.

The buscoupler features an integrated 2-port switch, allowing easy line structure creation without requiring any additional network components.

The device name can be assigned via DCP protocol or be adjusted by a DIP switch if the protocol is not supported by the control systems.

**Data**

**Technical Data**

|  |   |
|--|---|
| Communication                                    | PROFINET IO                                   |
| Ethernet protocol                                | DCP<br>SNMP<br>LLDP<br>HTTP                   |
| Device-specific                                  | PROFINET IO (RT Class 1); Conformance Class B |
| Baud rate  | -   |
| Fieldbus segment length max.                     | 100 m   |
| Transmission medium                              | Twisted Pair S-UTP; 100 Ω; Cat. 5             |
| Number of modules per node max.                  | 128   |
| Number of I/O modules without bus extension max. | 64  |
| Input and output process image (Fieldbus) max.   | 320 Byte/320 Byte                             |



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|  |   |
|--|---|
| System supply voltage  | DC 24 V(-15 ... +20 %); via wiring level (CAGE CLAMP® connection) |
| Current consumption, system supply (5 V)                     | 300 mA  |
| Total current for system supply                              | 1700 mA   |
| System and sensor supply voltage                             | )   |
| Field supply voltage   | DC 24 V (-15 ... +20 %); via power jumper contacts                |
| Input current typ. at rated load (24 V)                      | 500 mA  |
| Efficiency of the power supply (typ.) at nominal load (24 V) | 87 %  |
| Isolation  | 500 V system/supply   |
| Number of outgoing power jumper contacts                     | 3   |
| Current carrying capacity of the 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 technology: Device configuration   | 1 x 4-pole male connector                    |
| 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 inch              |

### Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 50.5 mm / 1.988 inch |
| Height                                | 71.1 mm / 2.799 inch |
| Height from upper-edge of DIN-35 rail | 63.9 mm / 2.516 inch |
| Depth                                 | 100 mm / 3.937 inch  |

### Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

### Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Weight             | 189.507 g                    |
| Conformity marking | 1                            |

### Environmental Requirements

|   |               |
|---|---------------|
| Surrounding air (operating) temperature | 0 ... 55 °C   |
| Surrounding air (storage) temperature   | -25 ... 85 °C |



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|  |  |
|--|--|
| Protection class   | IP20   |
| Degree of pollution (5)  | 2 per IEC 61131-2  |
| Operating altitude   | without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); max.: 5000 m |
| Mounting position  | any  |
| Relative air humidity (no condensation)  | 95 %   |
| Vibration resistance   | acc. to IEC 60068-2-6  |
| Shock resistance   | 15g per IEC 60068-2-27   |
| EMC immunity to interference   | acc. to EN 61000-6-2   |
| EMC emission of interference   | acc. to 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 (Remote I/O) |
| Country of origin  | DE              |
| GTIN               | 4045454548988   |
| Customs Tariff No. | 85176200000     |

**Approvals / Certificates**

**Ex-Approvals**

| Logo | Approval   | Additional Approval Text | Certificate name                  |
|------|--|--------------------------|-----------------------------------|
|      | ATEX<br>TUEV Nord Cert GmbH                                | EN 60079-0               | TÜV 07<br>ATEX<br>554086 X<br>en. |
|      | TUEV Nord<br>TUEV Nord Cert GmbH                           | IEC 60079-0              | IECEX<br>TUN<br>09.0001 X         |
|      | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | ANSI/ISA 12.12.01        | E198726<br>Sec.1                  |

**Country specific Approvals**

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



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UL-Approvals

| Logo | Approval  | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
|      | <b>UL</b><br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508                   | E175199 Sec.1    |

Compatible products

shield connection

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
















Marking accessories

|  |   |                   |
|--|---|-------------------|
|  | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type         | 2009-145          |
|  | <b>Item no.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145 /000-002 |
|  | <b>Item no.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145 /000-005 |





















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|--|---|----------|----------|
|    | <b>Item no.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | /000-006 | 2009-145 |
|    | <b>Item no.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | /000-007 | 2009-145 |
|    | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | /000-012 | 2009-145 |
|    | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type  | /000-023 | 2009-145 |
|    | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | /000-024 | 2009-145 |
|    | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card  |          | 248-501  |
|    | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-002 | 248-501  |
|  | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-005 | 248-501  |
|  | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-006 | 248-501  |
|  | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-007 | 248-501  |
|  | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-012 | 248-501  |
|  | <b>Item no.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-017 | 248-501  |
|  | <b>Item no.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-023 | 248-501  |
|  | <b>Item no.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | /000-024 | 248-501  |
|  | <b>Item no.: 750-100</b><br>Marker card; as a DIN A4 sheet; plain   |          | 750-100  |



















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|--|--|---------|
|    | <p>750-370<br/>                     Item no.: 750-103<br/>                     Group marker carrier</p>  | 750-103 |
|    | <p>Item no.: 750-106<br/>                     Group marker carrier</p>   | 750-106 |
| <b>Carrier rail</b>  |  |         |
|    | <p>Item no.: 210-112<br/>                     Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm</p> | 210-112 |
|    | <p>Item no.: 210-113<br/>                     Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715</p>                  | 210-113 |
|    | <p>Item no.: 210-114<br/>                     Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715</p>                   | 210-114 |
|    | <p>Item no.: 210-115<br/>                     Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm</p> | 210-115 |
|    | <p>Item no.: 210-118<br/>                     Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715</p>                 | 210-118 |
|    | <p>Item no.: 210-196<br/>                     Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715</p>               | 210-196 |
|    | <p>Item no.: 210-197<br/>                     Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715</p>                     | 210-197 |
|  | <p>Item no.: 210-198<br/>                     Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715</p>                | 210-198 |
|  | <p>Item no.: 210-504<br/>                     Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715</p>        | 210-504 |
|  | <p>Item no.: 210-505<br/>                     Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715</p>      | 210-505 |
|  | <p>Item no.: 210-506<br/>                     Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715</p>       | 210-506 |
|  | <p>Item no.: 210-508<br/>                     Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715</p>         | 210-508 |
| <b>system box</b>  |  |         |
|  | <p>Item no.: 850-804<br/>                     IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip</p>          | 850-804 |
|  | <p>Item no.: 850-804/000-001<br/>                     IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip</p>  | 850-804 |
|  | <p>Item no.: 850-805<br/>                     IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip</p>          | 850-805 |
|  | <p>Item no.: 850-814/002-000<br/>                     IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate</p>             | 850-814 |

This item has been discontinued and as of 31.12.2018, can no longer be delivered.



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|--|--|---------------------|
|    | <b>750-370</b><br>Item no.: 850-815/002-000<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate      | 850-815<br>/002-000 |
|    | <b>Item no.: 850-816/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate                 | 850-816<br>/002-000 |
|    | <b>Item no.: 850-817/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate                 | 850-817<br>/002-000 |
|    | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                               | 850-825             |
|    | <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          | 850-826             |
|    | <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  | 850-826<br>/002-000 |
|    | <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          | 850-827             |
|   | <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  | 850-827<br>/002-000 |
|  | <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         | 850-828             |
|  | <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 | 850-828<br>/002-000 |
|  | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               | 850-834             |
|  | <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          | 850-835             |
|  | <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          | 850-836             |
| <b>General accessories</b>   |  |                     |
|  | <b>Item no.: 750-921</b><br>Bluetooth® Adapter   | 750-921             |
|  | <b>Item no.: 750-923</b><br>Configuration cable; USB connector; Length: 2.5 m  | 750-923             |
|  | <b>Item no.: 750-923/000-001</b><br>Configuration cable; USB connector; Length: 5 m  | 750-923<br>/000-001 |



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### Downloads

#### Documentation

##### Manual

|  |         |               |          |
|--|---------|---------------|----------|
| PROFINET IO Fieldbus Coupler<br>2-port; 100 Mbit/s; digital and analog signals | V 2.0.0 | pdf<br>7.4 MB | Download |
|--|---------|---------------|----------|

##### Bid Text

|                        |             |                |          |
|------------------------|-------------|----------------|----------|
| 750-370<br>IO, Koppler | Apr 4, 2012 | doc<br>28.7 kB | Download |
|------------------------|-------------|----------------|----------|

##### Additional Information

|  |         |                 |          |
|--|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
|--|---------|-----------------|----------|

##### System Description

|  |         |               |          |
|--|---------|---------------|----------|
| Use in Hazardous Environments<br>Term definition, marking and installation regulations | V 1.0.0 | pdf<br>1.0 MB | Download |
|--|---------|---------------|----------|

|  |         |               |          |
|--|---------|---------------|----------|
| Design Notes<br>Basic conditions and recommendations for higher operational safety | V 2.0.0 | pdf<br>1.5 MB | Download |
|--|---------|---------------|----------|

|   |  |               |          |
|---|--|---------------|----------|
| 750/753 Series I/O-System – General Product Information |  | pdf<br>1.7 MB | Download |
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|   |  |                 |          |
|---|--|-----------------|----------|
| Overview on WAGO-I/O-SYSTEM 750 approvals |  | pdf<br>780.2 kB | Download |
|---|--|-----------------|----------|

#### Application Notes

##### Application note SIEMENS

|   |                        |                 |          |
|---|------------------------|-----------------|----------|
| Verwendung der WAGO GSD-Dateien für PROFIBUS DP und PROFINET IO (a100850)<br>Verwendung der WAGO GSD-Dateien für PROFIBUS DP und PROFINET IO (GSDML, Siemens, S7, Step 7, TIA, Simatic, Kommunikation). | V1.0.0<br>May 16, 2017 | zip<br>683.4 kB | Download |
|---|------------------------|-----------------|----------|

#### Runtime Software

##### Firmware

|  |                    |               |          |
|--|--------------------|---------------|----------|
| Firmware: 750-370 Fieldbus Coupler PROFINET IO; 2nd Generation | 08<br>Mar 28, 2019 | zip<br>2.0 MB | Download |
|--|--------------------|---------------|----------|

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### CAD/CAE - Smart Data

#### CAD data

3D Download 750-370

URL

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### Device Files

#### Device Driver

WAGO USB Service Cable Driver / 750 and 857 Series  
759-923

6.5.3.0  
Sep 10, 2014

zip  
4.8 MB

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#### Device Description File

GSD files of version 2.x for PROFINET/ 750 and 767 Series

2.4  
Jul 15, 2017

zip  
1.7 MB

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### Product family

#### **750/753 Series I/O-System**

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Subject to changes.

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