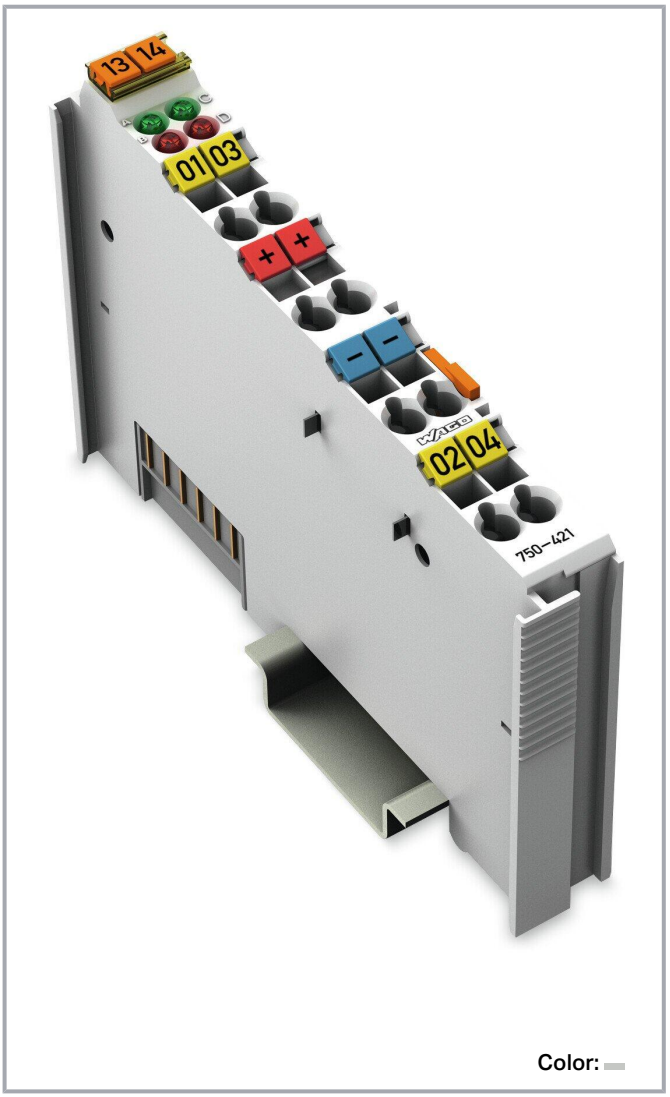
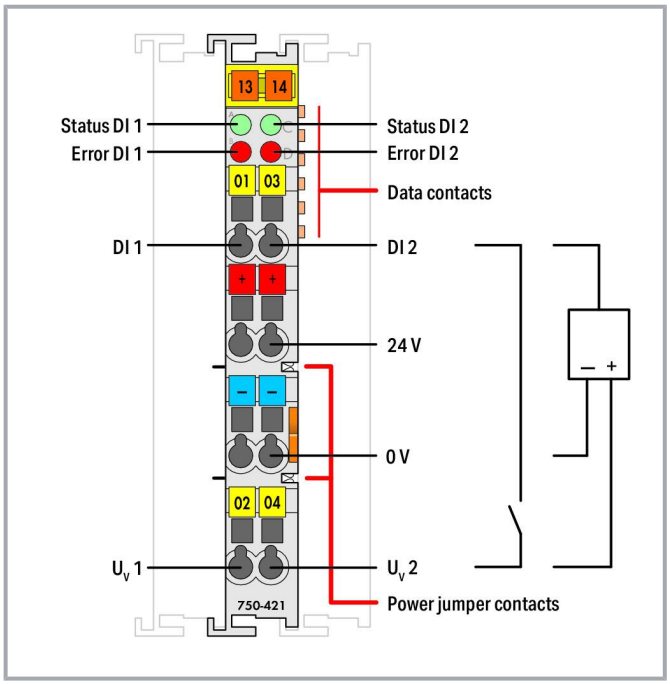
# Data sheet | Item number: 750-421

2-channel digital input; 24 VDC; 3 ms; Diagnostics

www.wago.com/750-421

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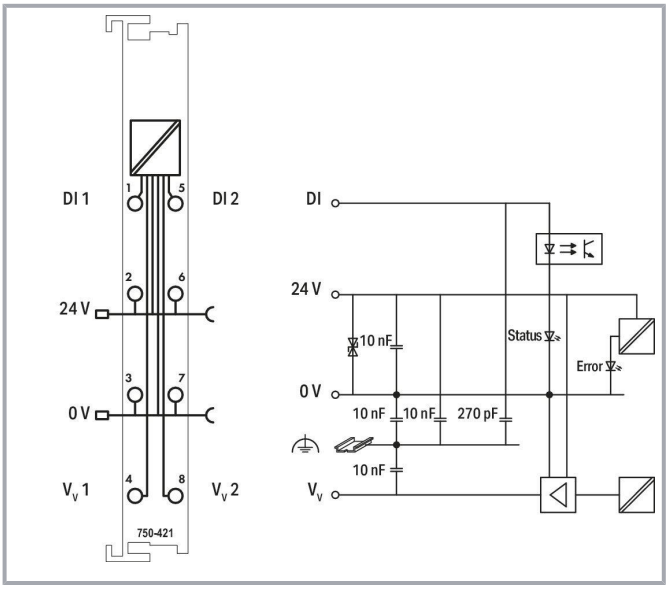


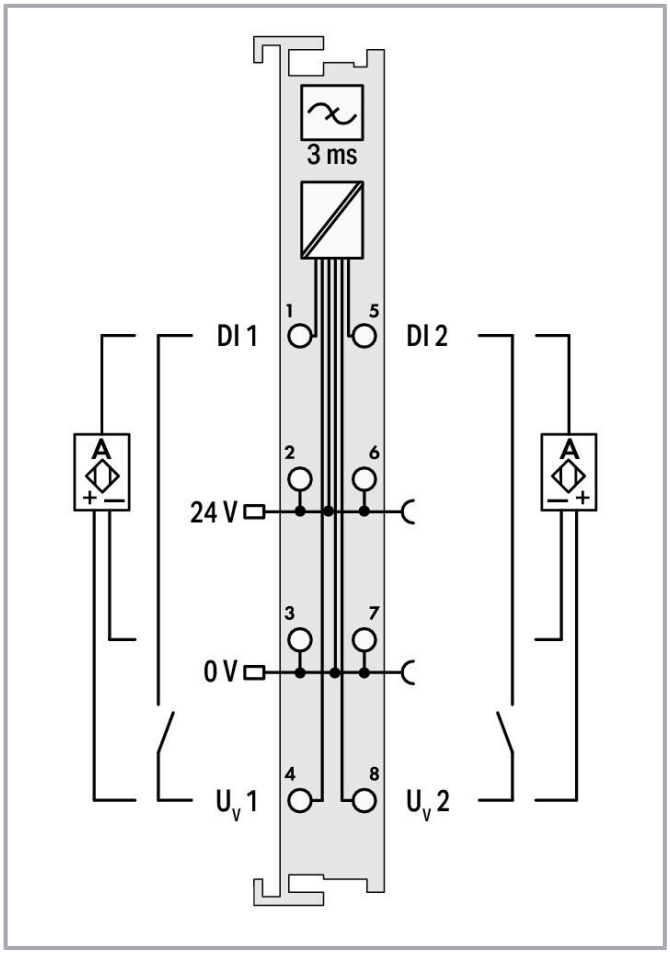


## Item description

This digital input module receives control signals from the field side and supplies a short-circuit proof voltage to the sensors. The module transfers the control signals and other information via a fieldbus coupler to the higher-level controller.

Each input module has a noise-rejection filter.

Each sensor can be supplied separately. A short circuit to ground is indicated as an error/fieldbus failure and a message is sent to the supervisory control.

The error is canceled automatically after it has been rectified.

Field and system levels are electrically isolated.

## Data

## Technical data

| | |
|---|---|
| Number of digital inputs | 2 |



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| | |
|---|---|
| Total number of channels (module) | 2 |
| Signal type | Digital<br>Voltage |
| Signal type (voltage) | 24 VDC |
| Supply voltage (sensor) | 24 VDC; Each channel is supplied separately with a short-circuit-protected voltage. A short circuit to ground is indicated as an error /fieldbus failure and a message is sent to the supervisory control. The error is canceled automatically after it has been rectified. |
| Sensor connection | 2 x (2-wire, 3-wire) |
| Input characteristic | high-side switching |
| Input filter (digital) | 3 ms<br>3 ms |
| Input current per channel for signal (1) typ. | 3.7 mA |
| Output current per channel | 0.5 A |
| Short-circuit current | 1.5 A, pulsating due to thermal overload protection |
| Voltage range for signal (0) | −3 … +5 VDC |
| Voltage range for signal (1) | 15 … 30 VDC |
| Diagnostics | Short circuit, automatic acknowledgment after error rectified |
| Input data width (internal) max. | 4 bits |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (5 V system supply) | 12 mA |
| Supply voltage (field) | 24 VDC (-25 … +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation | 500 V system/field |
| Indicators | LED (A, C) green: Status DI 1, DI 2; LED (B, D) red: Error DI 1, DI 2 |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |
| Current carrying capacity (power jumper contacts) | 10 A |

## Connection data

| | |
|---|---|
| Connection technology: inputs/outputs | 8 x CAGE CLAMP® |
| Connection type 1 | Inputs/Outputs |
| 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 |

## Physical data

| | |
|---|---|
| Width | 12 mm / 0.472 inches |

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| | |
|---|---|
| Height | 100 mm / 3.937 inches |
| Depth | 69.8 mm / 2.748 inches |
| Depth from upper-edge of DIN-rail | 62.6 mm / 2.465 inches |

## Mechanical Data

| | |
|---|---|
| Mounting type | DIN-35 rail |
| Pluggable connector | Fixed |

## Material Data

| | |
|---|---|
| Color | light gray |
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 1.316 MJ |
| Weight | 49.8 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 $H_2S$ contaminant concentration at a relative humidity 75 % | 10 ppm |
| Permissible $SO_2$ contaminant concentration at a relative humidity 75 % | 25 ppm |

## Commercial data

| | |
|---|---|
| Product Group | 15 (I/O System) |
| eCl@ss 10.0 | 27-24-26-04 |

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| | |
|---|---|
| eCl@ss 9.0 | 27-24-26-04 |
| ETIM 8.0 | EC001599 |
| ETIM 7.0 | EC001599 |
| PU (SPU) | 1 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4045454495008 |
| Customs tariff number | 85389099990 |

## Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 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 |
| 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) | 803ed15f-47c7-47af-93c7-03f4217ca831 |
| SCIP notification number (Belgium) | a4eadee4-501f-404d-907a-d2abde33bebc |
| SCIP notification number (Bulgaria) | eb4795f9-30a6-4773-a667-b06bf93c3a72 |
| SCIP notification number (Czech Republic) | 549d6e19-fcd3-4abc-bcae-42c616a2f9cf |
| SCIP notification number (Denmark) | 1b35d4c1-68b8-4707-9d46-8ca3a5acd5d8 |
| SCIP notification number (Finland) | e0c0e1b3-91a5-469f-8da1-4d4d99097b96 |
| SCIP notification number (France) | 51bb9dff-ee15-4e7d-9af9-4150d1c8c11a |
| SCIP notification number (Germany) | fc9f1adf-96cf-445e-b9c7-6e803f976708 |
| SCIP notification number (Hungary) | d2f9a2d6-007f-41d5-904a-f281d8970651 |
| SCIP notification number (Italy) | 12ce542d-acf7-4617-a9e0-ced61fc4108b |
| SCIP notification number (Netherlands) | 57a24adf-2146-4697-8320-6060779bb171 |
| SCIP notification number (Poland) | fb1f3cf0-883f-4331-9602-346ac3571954 |
| SCIP notification number (Romania) | 87107905-be31-4c23-a2f0-4e2a534580d6 |
| SCIP notification number (Sweden) | 63b3124a-dd15-4c17-b337-c5c391958f50 |



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## Approvals / Certificates

### General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **CCC**<br>CNEX | CNCA-C23-01 | 2020312310000213<br>(Ex ec IIC T4 Gc) |
| | **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-<br>DIM750 |
| | **UL**<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.1 |

### Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **EU-Declaration of Conformity**<br>WAGO GmbH & Co. KG | - | - |
| | **UK-Declaration of Conformity**<br>WAGO GmbH & Co. KG | - | - |

### Approvals for marine applications

| Logo | Approval | Additional Approval Text | 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 |

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

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **ATEX**<br>TUEV Nord Cert GmbH | EN 60079-0 | TUEV_14_ATEX_148929_X (II 3 G Ex ec IIC T4 Gc) |
| | **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.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** | IEC 60079-0 | BR-Ex_TÜV 12.1297 X |



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| | | | |
|---|---|---|---|
| | TÜV Rheinland do Brasil Ltda. | | |
| | **KTL**<br>Korea Testing Laboratory | KOSHA Article 34, IEC60079-0 | 21-KA4BO-0553X |
| | **UKEx**<br>WAGO GmbH & Co. KG | EN 60079-0 | UKCA_WAGO22UKEX003X_ec |
| | **UL**<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201 | E198726 Sec.1 |

## Optional accessories

### Carrier rail

Mounting accessories

| | | |
|---|---|---|
| | **Item no.: 210-197**<br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored | www.wago.com/210-197 |
| | **Item no.: 210-198**<br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored | www.wago.com/210-198 |
| | **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; silver-colored | www.wago.com/210-504 |
| | **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; silver-colored | www.wago.com/210-505 |
| | **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; silver-colored | www.wago.com/210-506 |
| | **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; silver-colored | www.wago.com/210-508 |
| | **Item no.: 210-113**<br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored | www.wago.com/210-113 |
| | **Item no.: 210-118**<br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored | www.wago.com/210-118 |

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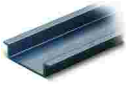
| | | |
|---|---|---|
| | **Item no.: 210-112**<br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored | www.wago.com/210-112 |
| | **Item no.: 210-114**<br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored | www.wago.com/210-114 |
| | **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; silver-colored | www.wago.com/210-115 |
|  | **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; silver-colored | www.wago.com/210-196 |

**Shield termination**

Shield clamping saddles

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

**Supply module**

Supply module

| | | |
|---|---|---|
| | **Item no.: 750-601**<br>Power Supply; 24 VDC; fuse holder | www.wago.com/750-601 |
| | **Item no.: 750-610**<br>Power Supply; 24 VDC; fuse holder; Diagnostics | www.wago.com/750-610 |
| | **Item no.: 750-602**<br>Power Supply; 24 VDC | www.wago.com/750-602 |
| | **Item no.: 750-612**<br>Power Supply; 0 … 230 V AC/DC | www.wago.com/750-612 |

**System housing**

System enclosure

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| | | |
|---|---|---|
| | **Item no.: 850-814/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate | www.wago.com/850-814/002-000 |
| | **Item no.: 850-815/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate | www.wago.com/850-815/002-000 |
| | **Item no.: 850-816/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate | www.wago.com/850-816/002-000 |
| | **Item no.: 850-817/002-000**<br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate | www.wago.com/850-817/002-000 |
| | **Item no.: 850-825**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20 | www.wago.com/850-825 |
| | **Item no.: 850-826**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | www.wago.com/850-826 |
| | **Item no.: 850-827**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip | www.wago.com/850-827 |
| | **Item no.: 850-827/002-000**<br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip | www.wago.com/850-827/002-000 |
| | **Item no.: 850-826/002-000**<br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | www.wago.com/850-826/002-000 |
| | **Item no.: 850-828/002-000**<br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | www.wago.com/850-828/002-000 |
| | **Item no.: 850-828**<br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | www.wago.com/850-828 |
| | **Item no.: 850-834**<br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20 | www.wago.com/850-834 |
| | **Item no.: 850-835**<br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip | www.wago.com/850-835 |
| | **Item no.: 850-836**<br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip | www.wago.com/850-836 |

**Marking accessories**

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Marker carrier

| | | |
|---|---|---|
| | Item no.: 750-103<br>Group marker carrier | www.wago.com/750-103 |

Marker

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

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| | | |
|---|---|---|
| | **Item no.: 248-501/000-012**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange | www.wago.com/248-501/000-012 |
| | **Item no.: 248-501**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/248-501 |
| | **Item no.: 248-501/000-017**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green | www.wago.com/248-501/000-017 |
| | **Item no.: 248-501/000-005**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red | www.wago.com/248-501/000-005 |
| | **Item no.: 248-501/000-024**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet | www.wago.com/248-501/000-024 |
| | **Item no.: 248-501/000-023**<br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green | www.wago.com/248-501/000-023 |
| | **Item no.: 750-100**<br>Marker card; as a DIN A4 sheet; plain | www.wago.com/750-100 |
| Group marker carrier | | |
| | **Item no.: 750-106**<br>Group marker carrier | www.wago.com/750-106 |

## Downloads

### Documentation

**Manual**

| | | | |
|---|---|---|---|
| System Manual WAGO I/O System 750/753<br>Decentralized Automation Technology | V 3.3.0<br>2023 May 4 | pdf<br>8.8 MB | Download |
| Product Manual 2-channel, 24VDC, 3.0ms<br>high-side switching, with diagnostics | V 2.0.0<br>2022 Sep 7 | pdf<br>2.9 MB | Download |
| System Manual Series 750/753<br>Online HTML | | URL | Download |

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

### Bid Text

| | | | |
|---|---|---|---|
| 750-421<br>X81 - Datei | 2019 Feb 19 | xml<br>4.8 kB | Download |
| 750-421<br>doc - Datei | 2017 Jul 12 | doc<br>27.1 kB | Download |

### Instruction Leaflet

| | | | |
|---|---|---|---|
| CCC Ex (Additional information)<br>WAGO-I/O-SYSTEM *750-****/* | 2023 Apr 26 | pdf<br>163.6 kB | Download |

### System Description

| | | | |
|---|---|---|---|
| 750/753 Series I/O-System – General Product Information | | pdf<br>1.7 MB | Download |
| Overview on WAGO-I/O-SYSTEM 750 approvals | | pdf<br>789.0 kB | Download |

### Additional Information

| | | | |
|---|---|---|---|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 Aug 18 | pdf<br>2.2 MB | Download |

## CAD/CAE-Data

### CAD data

| | | |
|---|---|---|
| 2D/3D Models 750-421 | URL | Download |

### CAE data

| | | |
|---|---|---|
| EPLAN Data Portal 750-421 | URL | Download |
| ZUKEN Portal 750-421 | URL | Download |
| WSCAD Universe 750-421 | URL | Download |

## Device Files

### Device Driver

Subject to changes. Please also observe the further product documentation!

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|---|---|---|---|
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0<br>2014 Sep 10 | zip<br>4.8 MB | Download |

## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 750-421<br>2-channel digital input; 24 VDC; 3 ms; Diagnostics | URL | Download |

## Installation Notes

## Product family

**WAGO I/O System 750/753**
Show all products from the family



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