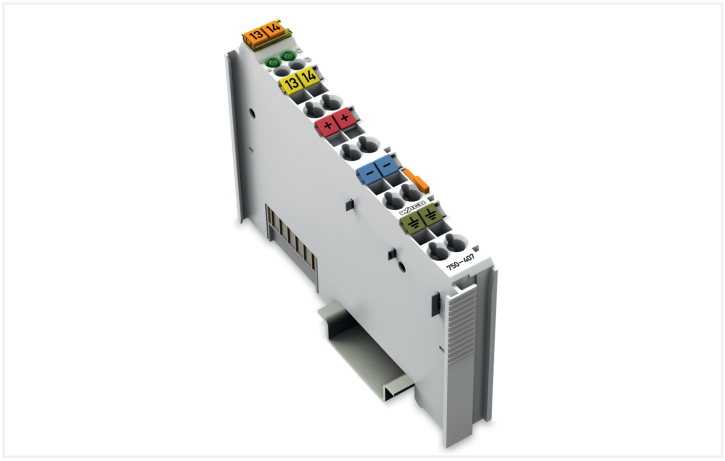
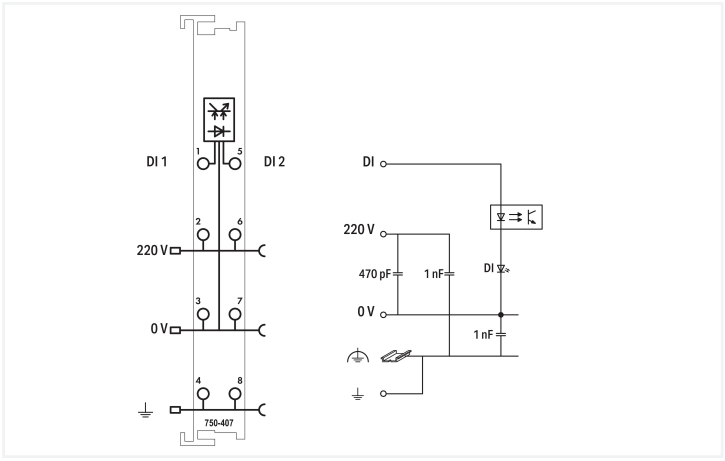
# Data Sheet | Item Number: 750-407

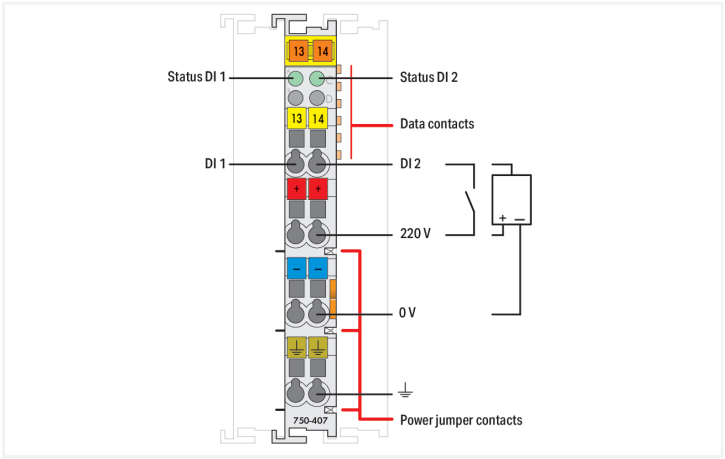
2-channel digital input; 220 VDC

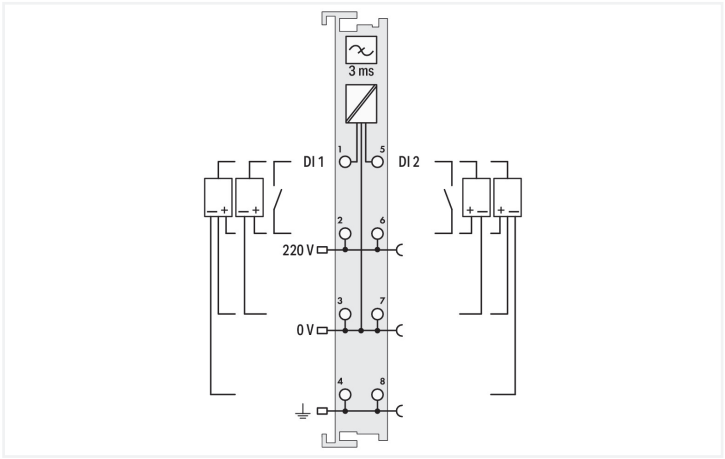
https://www.wago.com/750-407






Color: light gray




This digital input module receives control signals from field devices (e.g., sensors).
Each input module has a 3.0 ms noise-rejection filter.
Field and system levels are electrically isolated.**Notice:**
An additional supply module must be added for 220 VDC supply!

| Technical data | |
|---|---|
| Number of digital inputs | 2 |
| Total number of channels (module) | 2 |
| Signal type | Digital |
| Signal type (voltage) | 220 VDC |
| Sensor supply | 220 VDC |
| Sensor connection | 2 x (2-wire, 3-wire, 4-wire) |
| Input characteristic | high-side switching |
| Input filter | 3 ms |
| Input current per channel for signal (1) typ. | 1.2 mA |
| Voltage range for signal (0) | –3 … +100 VDC |
| Voltage range for signal (1) | 160 … 286 VDC |
| Input data width (internal) max. | 2 bits |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (system supply) | 5 mA |
| Supply voltage (field) | 220 VDC (-20 … +25 %); via power jumper contacts (power supply via blade contact; transmission (field side supply voltage only) via spring contact) |
| Indicators | LED (A, C) green: Status DI 1, DI 2 |
| Number of incoming power jumper contacts | 3 |

## Technical data

| | |
|---|---|
| Number of outgoing power jumper contacts | 3 |
| Current carrying capacity (power jumper contacts) | 10 A |

## Safety and protection

| | |
|---|---|
| Protection type | IP20 |
| Pollution degree | 2 per IEC 61131-2 |
| Isolation | 2500 V system/field |

## Connection Data

| | |
|---|---|
| Connection technology: I/O | 8 x CAGE CLAMP® (inputs) |
| Connectable conductor materials | Copper |
| Connection type | Input |
| 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 |
| 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 | 0.875 MJ |
| Weight | 47 g |
| Conformity marking | CE |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | 0 … +55 °C |
| Ambient temperature (storage) | -40 … +85 °C |
| 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 % |
| 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 $H_2S$ contaminant concentration at a relative humidity 75 % | 10 ppm |
| Permissible $SO_2$ contaminant concentration at a relative humidity 75 % | 25 ppm |


Continued on next page

## Commercial data

| | |
|---|---|
| Product Group | 15 (I/O System) |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821310105 |
| Customs tariff number | 85176200000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 32151705 |
| eCl@ss 10.0 | 27-24-26-04 |
| eCl@ss 9.0 | 27-24-26-04 |
| ETIM 9.0 | EC001599 |
| ETIM 10.0 | EC001599 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 1303-86-2<br>1317-36-8<br>7439-92-1 |
| REACH Candidate List Substance | Diboron trioxide<br>Lead<br>Lead monoxide |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 7(a)<br>7(c)-I |
| SCIP notification number (Austria) | e27ae7f8-e6b9-469a-9ead-db182574f973 |
| SCIP notification number (Belgium) | cf899e3e-0a5a-4a8c-93dc-eff87bad4b24 |
| SCIP notification number (Bulgaria) | 85ab7aeb-dc8c-4b75-ab17-d5d7efadcd6d |
| SCIP notification number (Czech Republic) | 99d5b158-28f9-40fc-8375-b2004b9ef14e |
| SCIP notification number (Denmark) | 633184a7-b040-4411-baad-455fe58bf47e |
| SCIP notification number (Finland) | 6624d746-7b84-46a9-aded-79f690c248c5 |
| SCIP notification number (France) | cbd5a1d6-837e-4053-9bec-89638e387005 |
| SCIP notification number (Germany) | a306e6ec-27fe-47c5-89e8-07831b0c7518 |
| SCIP notification number (Hungary) | 76c18610-19bb-460c-97eb-0ba60818756a |
| SCIP notification number (Italy) | 400e94f4-aca9-4350-a5c5-1a17031e0b6e |
| SCIP notification number (Netherlands) | 3f464101-80fd-417b-bbdf-4ce8a09335c4 |
| SCIP notification number (Poland) | cd6974e1-4db0-4d66-9efc-b2a2733ff3ed |
| SCIP notification number (Romania) | 359b9955-f955-491d-ad53-820a03c6a2d2 |
| SCIP notification number (Sweden) | 8dfa4535-c1a8-484d-ad59-e8893cfd4b4e |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03080 |
| KC<br>National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-DIM750 |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | - | E175199 |

### 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 | - | - |


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## 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) |
| IECEx<br>TUEV Nord Cert GmbH | IEC 60079-0 | IECEx TUN 14.0035 X (Ex ec IIC T4 Gc) |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 750-407

### Documentation

**Manual**

| | | | |
|---|---|---|---|
| System Manual Series 750/753 | | | |
| Product Manual 2DI 220V DC 3.0ms | V 2.0.0<br>20.10.2022 | pdf<br>2925.31 KB | |

**System Description**

| | | |
|---|---|---|
| 750/753 Series I/O-System – General Product Information | pdf<br>953.35 KB | |
| Overview on WAGO-I/O-SYSTEM 750 approvals | pdf<br>770.48 KB | |

**Bid Text**

| | | | |
|---|---|---|---|
| 750-407 | 19.02.2019 | xml<br>4.01 KB | |
| 750-407 | 12.07.2017 | doc<br>27.50 KB | |

### CAD/CAE-Data

**CAD data**

2D/3D Models 750-407

**CAE data**

EPLAN Data Portal 750-407

WSCAD Universe 750-407

ZUKEN Portal 750-407


Continued on next page

## 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 | |

# 1 Compatible Products

## 1.1 Optional Accessories

### 1.1.1 DIN-rail

#### 1.1.1.1 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

### 1.1.2 Marking

#### 1.1.2.1 Group marker carrier



Item No.: 750-106
Group marker carrier

#### 1.1.2.2 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


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### 1.1.2.2 Marker



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

### 1.1.2.3 Marker carrier



Item No.: 750-103
Group marker carrier

## 1.1.3 Shield termination

### 1.1.3.1 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

## 1.1.4 Supply module

### 1.1.4.1 Supply module



Item No.: 750-612
Power Supply; 0 … 230 V AC/DC

## 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); WxHxD (164x100x164 mm); 9 x M12, 4 x M20



Item No.: 850-835
IP65 enclosure; Polyester (RAL 7032); WxHxD (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 flange plate



Item No.: 850-815/002-000
IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate


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### 1.1.5.1 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