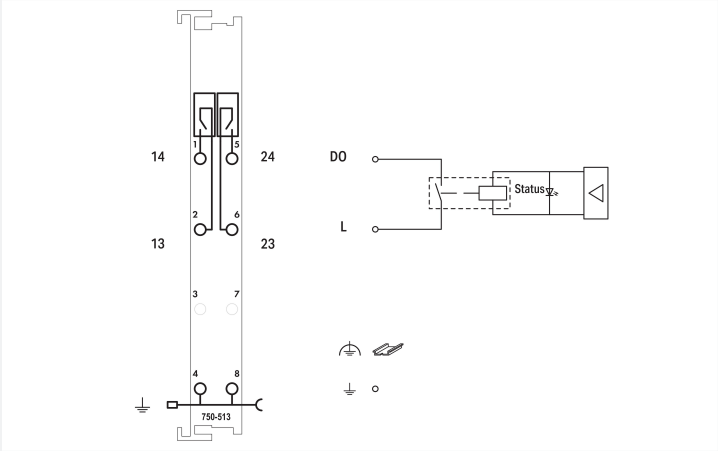
# Data Sheet | Item Number: 750-513

DISCONTINUED: 01.07.2026

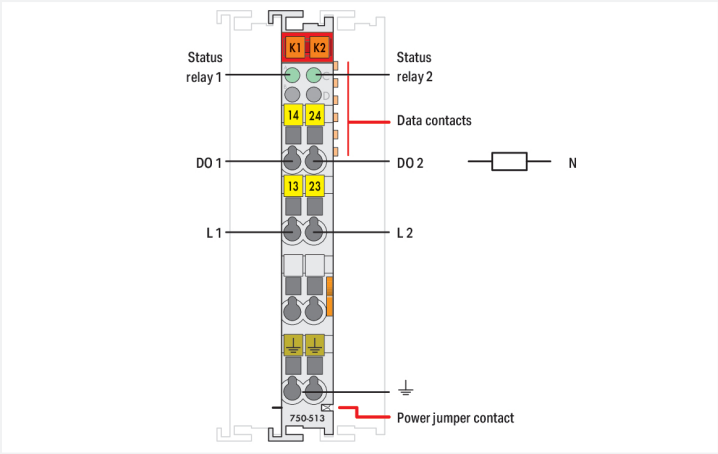
2-channel relay output; AC 250 V; 2.0 A; Potential-free; 2 make contact

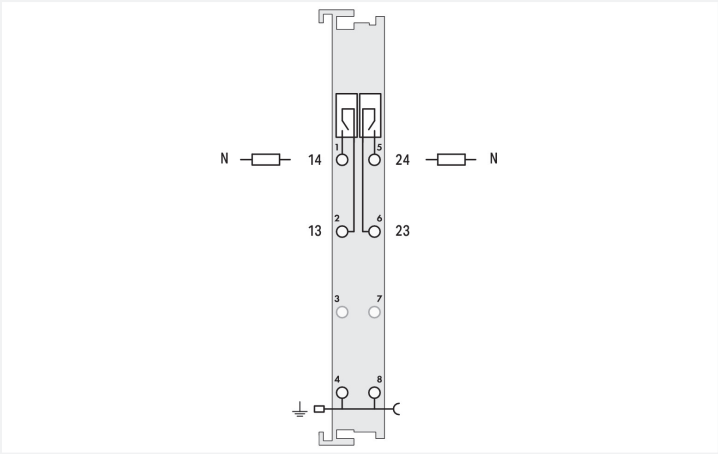
https://www.wago.com/750-513






Color: light gray




This digital output module transmits control signals from the automation device to the connected actuators.
The internal system voltage triggers the relay.
The NO contacts are electrically isolated.
The state of the relay is indicated by a LED.

| Technical data | |
|---|---|
| Number of digital outputs | 2 |
| Total number of channels (module) | 2 |
| Signal type | Digital |
| Actuator connection | 2 x (1-wire) |
| Output circuit design | 2 make contacts<br>Relay |
| Output characteristic | potential-free |
| Pull-in time (max.) | 10 ms |
| Drop-out time (max.) | 10 ms |
| Bounce time (typ.) | 1.2 ms |
| Switching frequency (max.) | 0.5 Hz; Nominal load |
| Switching voltage (max.) | 250 VAC, 30 VDC |
| Switching current (max.) | 2 A |

## Technical data

| | |
|---|---|
| Switching voltage (min.) | 5 V |
| Switching current (min.) | 10 mA |
| Switching power | 500 VA / 60 W; cos  max. = 0.4; L/R max. = 7 ms |
| Electrical switching operations (min.) (at max. resistive load) | 300 x $10^3$ switching operations |
| Mechanical switching operations (min.) (at max. resistive load) | 20 x $10^6$ switching operations |
| Output data width (internal) max. | 2 bits |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (system supply) | 100 mA |
| Supply voltage (field) | Transmission of ground potential via power jumper contact |
| Isolation | 1500 V (system/field) |
| Indicators | LED (A, C) green: Status relay 1, relay 2 |
| Number of incoming power jumper contacts | 1 |
| Number of outgoing power jumper contacts | 1 |
| Current carrying capacity (power jumper contacts) | 10 A |

## Connection Data

| | |
|---|---|
| Connection technology: I/O | 6 x CAGE CLAMP® (outputs) |
| Connectable conductor materials | Copper |
| Connection type | Output |
| 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 | 1.264 MJ |
| Weight | 64 g |
| Conformity marking | CE |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | 0 … +55 °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 % |
| Vibration resistance | 4g per IEC 60068-2-6 |
| Shock resistance | 15g per IEC 60068-2-27 |


Continued on next page

## Environmental requirements

| | |
|---|---|
| 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) |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4045454393434 |
| Customs tariff number | 85371098990 |
| End of Sale | 2026-07-01 |
| End of Production | 2026-11-30 |
| End of Delivery | 2026-12-31 |
| End of Service and Repair | 2028-12-31 |

## Product Classification

| | |
|---|---|
| UNSPSC | 32101517 |
| 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 | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II |
| SCIP notification number (Austria) | 72c36255-3230-4227-aaf3-7f0d3aa52420 |
| SCIP notification number (Belgium) | a20e6373-13e1-422c-a509-4288405fb02a |
| SCIP notification number (Czech Republic) | d191e0cd-9d2a-4908-975a-6d1582834f6f |
| SCIP notification number (Denmark) | 87c9fdc3-e1d7-4fd4-8bc8-e2ac6c286e4b |
| SCIP notification number (Finland) | aad9350e-de90-4a1b-869b-d8b6cbeb383f |
| SCIP notification number (France) | 81d6ccda-0dc5-4078-963d-342d1d75e6c3 |
| SCIP notification number (Germany) | 8537c580-7e32-4aac-892a-f44f5577ea56 |
| SCIP notification number (Hungary) | 6862fe2b-b09e-436d-babd-1266ac2cae31 |
| SCIP notification number (Italy) | 6ed748d5-e300-4cd5-ac64-049734cafabd |
| SCIP notification number (Netherlands) | 6911a994-e227-4d38-85a9-e7c20b962c8b |
| SCIP notification number (Poland) | 65fd4a2d-028a-458e-b76c-2e81ddf8de98 |
| SCIP notification number (Romania) | 31cb5ab6-a2ed-4e40-aedf-882f9455da0b |
| SCIP notification number (Sweden) | 4b1fa63b-92cc-4cf5-8dde-960e369ea042 |


Continued on next page

## Approvals / Certificates

### General approvals

| 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-DOM750 |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | 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 | - | - |

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | - | 25-0415412 |
| BSH<br>Bundesamt fuer Seeschiffahrt und Hydrographie | - | 1104 |
| BV<br>Bureau Veritas S.A. | - | 13453/E0 BV |
| 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 |
| NK<br>Nippon Kaiji Kyokai | Guidel. Perform. Type Approvals | TA25276M |
| PRS<br>Polski Rejestr Statków | - | TE/1101/880590/23 |
| RINA<br>RINA Germany GmbH | - | ELE343521XG001 |

### 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) |
| CCC<br>CNEX | CNCA-C23-01 | 2020312310000213 (Ex ec nC 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_WAGO22UKEX003X_ec nC |
| UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201 | E198726 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 750-513


Continued on next page

## Documentation

### Manual

| | | | |
|---|---|---|---|
| Product Manual 2-channel, 230VAC, 30VDC, 2A AC/DC | V 1.2.2 | pdf<br>2041.25 KB | |
| System Manual Series 750/753 | | | |

### 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

| | | | |
|---|---|---|---|
| 750-513 | 11.07.2017 | doc<br>29.00 KB | |
| 750-513 | 19.02.2019 | xml<br>4.59 KB | |
| ausschreiben.de 750-513 | | | |

### Instruction Leaflet

| | | | |
|---|---|---|---|
| CCC Ex (Additional information) | 26.04.2023 | pdf<br>159.76 KB | |

## CAD/CAE-Data

### CAD data

2D/3D Models 750-513

### CAE data

EPLAN Data Portal 750-513

WSCAD Universe 750-513

ZUKEN Portal 750-513

## 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


Continued on next page

## 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



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


Continued on next page

## 1.1.4 System enclosure

### 1.1.4.1 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



**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