

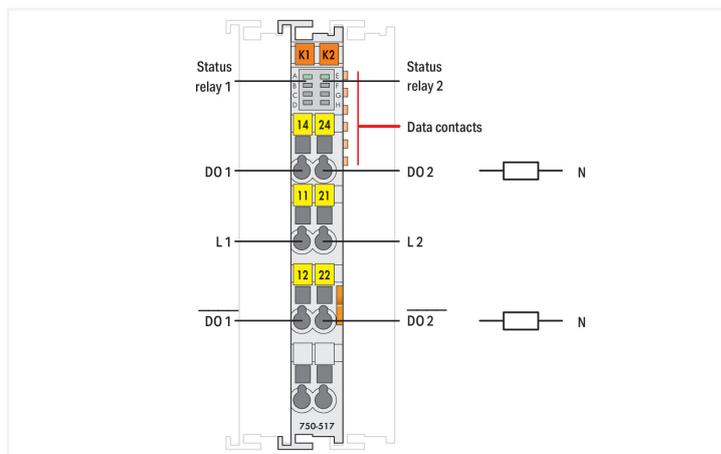
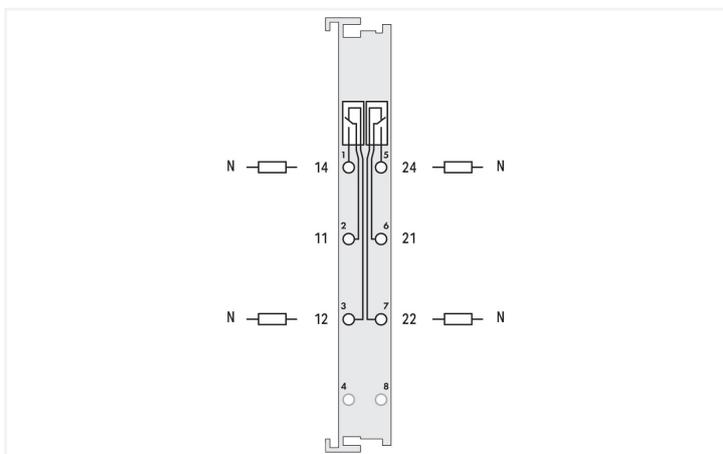
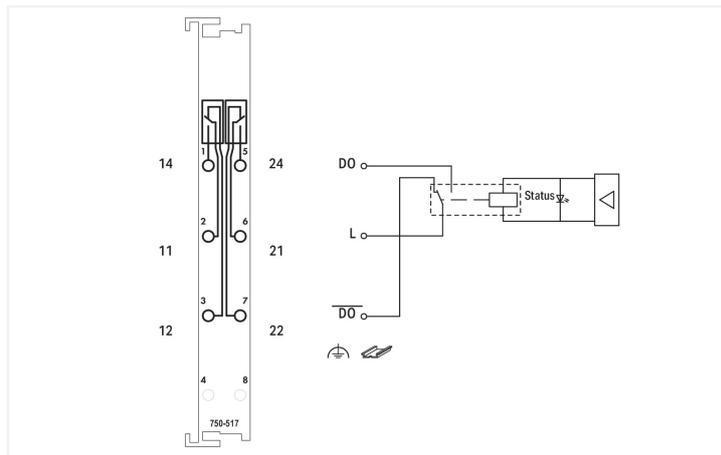
# Data Sheet | Item Number: 750-517

2-channel relay output; AC 250 V; 1 A; Potential-free; 2 changeover contacts

<https://www.wago.com/750-517>



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 changeover contacts<br>Relay               |
| Output characteristic   | potential-free                               |
| Pull-in time (max.)   | 8 ms   |
| Drop-out time (max.)  | 4 ms   |
| Switching frequency (max.)                                      | 0.1 Hz; Nominal load                         |
| Switching voltage (max.)  | 250 VAC, 300 VDC                             |
| Switching current (max.)  | 1 A  |
| Switching current (note)  | 1 A at 250 VAC and 40 VDC; 0.15 A at 300 VDC |
| Switching voltage (min.)  | 12 V   |
| Switching current (min.)  | 100 mA                                       |
| Electrical switching operations (min.) (at max. resistive load) | 1 x 10 <sup>6</sup> switching operations     |
| Mechanical switching operations (min.) (at max. resistive load) | 5 x 10 <sup>6</sup> switching operations     |
| Output data width (internal) max.                               | 2 bits                                       |
| Supply voltage (system)   | 5 VDC; via data contacts                     |

### Technical data

|   |   |
|---|---|
| Current consumption (5 V system supply) | 90 mA                                     |
| Isolation                               | 1500 V (system/field)                     |
| Indicators                              | LED (A, E) green: Status relay 1, relay 2 |

### Connection data

|                                       |  |
|---------------------------------------|--|
| Connection technology: inputs/outputs | 6 x CAGE CLAMP® (outputs)                    |
| Connectable conductor materials       | Copper                                       |
| Connection type 1                     | Output                                       |
| 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 inches            |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 12 mm / 0.472 inches   |
| Height                            | 100 mm / 3.937 inches  |
| Depth                             | 67.8 mm / 2.669 inches |
| Depth from upper-edge of DIN-rail | 60.6 mm / 2.386 inches |

### Mechanical data

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

### Material data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 1.02 MJ                      |
| Weight             | 52.4 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   |
| 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 <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                  | 4045454393519   |
| Customs tariff number | 85371098990     |

### Product classification

|        |          |
|--------|----------|
| UNSPSC | 32101517 |
|--------|----------|

### 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)        | d23da91f-e01d-4b3f-abff-91644fc7d390 |
| SCIP notification number (Belgium)        | d2d28e1d-d3b8-483f-9dbf-81e42675a7a2 |
| SCIP notification number (Bulgaria)       | c537b2f5-782d-44f4-9345-e26377f4023c |
| SCIP notification number (Czech Republic) | a23ff96e-8fa8-4b83-9bad-ef3b40c053d9 |
| SCIP notification number (Denmark)        | f9ed76c2-b698-47ca-9b32-2a4d23d7cf89 |
| SCIP notification number (Finland)        | 48f4b362-689d-4783-8fa7-fb8281f4de6d |
| SCIP notification number (France)         | f70e38a4-f476-445f-95f0-c1ca99d972b7 |
| SCIP notification number (Germany)        | 0f5e785a-f589-4f78-adf2-fee2907ef8d7 |
| SCIP notification number (Hungary)        | 347d8628-50d3-4efc-8acf-d1eb35e1e395 |
| SCIP notification number (Italy)          | fb04aab-c065-480e-b1b2-6dc7d281c23d  |
| SCIP notification number (Netherlands)    | 66ebf648-b44c-4c7b-ac65-eee24ed5c534 |
| SCIP notification number (Poland)         | 293c0675-8870-4f73-8eba-0cc7735c4a25 |
| SCIP notification number (Romania)        | cdd0b075-ce3a-4c3f-9c2c-1d4260d9f848 |
| SCIP notification number (Sweden)         | 06a0fa84-2cff-4b77-b24c-dc99f1acd233 |

### 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<br>Agency                           | Article 58-2, Clause 3 | MSIP-REM-W43-DOM750 |
| UL<br>Underwriters Laboratories<br>Inc. (ORDINARY LOCATI-<br>ONS) | UL 508                 | E175199             |

#### Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



| Approval  | Standard               | Certificate Name  |
|---|------------------------|-------------------|
| ABS<br>American Bureau of Ship-<br>ping                         | -                      | 22-2219060        |
| BSH<br>Bundesamt fuer See-<br>schifffahrt und Hydrogra-<br>phie | -                      | 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 Ship-<br>ping                          | -                      | KR HMB05880-AC001 |
| LR<br>Lloyds Register EMEA                                      | -                      | LR22180952TA      |
| 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)      |
| IECEX<br>TUEV Nord Cert GmbH                                | IEC 60079-0 | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)      |
| INMETRO<br>TUV Rheinland do Brasil Ltda.                    | IEC 60079-0 | TUV 12.1297 X                              |
| UKEx<br>WAGO GmbH & Co. KG                                  | EN 60079-0  | UKCA_WA-GO22UKEX003X_ec nC                 |
| UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCA-TIONS) | UL 121201   | E198726                                    |

Downloads

Environmental Product Compliance

| Compliance Search  |
|--|
| Environmental Product Compliance 750-517 <a href="#">↓</a> |

Documentation

| Manual                               |         |                   |                   |
|--------------------------------------|---------|-------------------|-------------------|
| Product Manual 2-channel, 230VAC, 1A | V 1.1.2 | pdf<br>2112.30 KB | <a href="#">↓</a> |
| System Manual Series 750/753         |         |                   | <a href="#">↓</a> |

| System Description                                      |  |                  |                   |
|---|--|------------------|-------------------|
| 750/753 Series I/O-System – General Product Information |  | pdf<br>953.35 KB | <a href="#">↓</a> |
| Overview on WAGO-I/O-SYSTEM 750 approvals               |  | pdf<br>770.48 KB | <a href="#">↓</a> |

| Bid Text |            |                 |                   |
|----------|------------|-----------------|-------------------|
| 750-517  | 19.02.2019 | xml<br>4.40 KB  | <a href="#">↓</a> |
| 750-517  | 11.07.2017 | doc<br>28.00 KB | <a href="#">↓</a> |

| Instruction Leaflet             |            |                  |                   |
|---------------------------------|------------|------------------|-------------------|
| CCC Ex (Additional information) | 26.04.2023 | pdf<br>159.76 KB | <a href="#">↓</a> |

## CAD/CAE-Data

| CAD data             | CAE data                  |
|----------------------|---------------------------|
| 2D/3D Models 750-517 | EPLAN Data Portal 750-517 |
|                      | WSCAD Universe 750-517    |
|                      | ZUKEN Portal 750-517      |

## 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.: 210-508**  
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

#### 1.1.2 Marking

##### 1.1.2.1 Group marker carrier



**Item No.: 750-106**  
Group marker carrier

1.1.2.2 Marker

|   |   |   |  |
|---|---|---|--|
|    |   |   |  |
| <p><b>Item No.: 750-100</b><br/>Marker card; as a DIN A4 sheet; plain</p>   | <p><b>Item No.: 2009-145/000-006</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue</p> | <p><b>Item No.: 2009-145/000-007</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray</p>   | <p><b>Item No.: 2009-145/000-023</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green</p> |
|   |   |   |  |
| <p><b>Item No.: 2009-145/000-012</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange</p> | <p><b>Item No.: 2009-145/000-005</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red</p>  | <p><b>Item No.: 2009-145/000-024</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet</p> | <p><b>Item No.: 2009-145</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white</p>         |
|   |    |   |   |
| <p><b>Item No.: 2009-145/000-002</b><br/>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</p> | <p><b>Item No.: 248-501/000-006</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue</p>                                  | <p><b>Item No.: 248-501/000-007</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray</p>                                    | <p><b>Item No.: 248-501/000-023</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green</p>                                  |
|    |    |   |   |
| <p><b>Item No.: 248-501/000-017</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green</p>                             | <p><b>Item No.: 248-501/000-012</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange</p>                                | <p><b>Item No.: 248-501/000-005</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red</p>                                     | <p><b>Item No.: 248-501/000-024</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet</p>                                 |
|    |    |   |  |
| <p><b>Item No.: 248-501</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white</p>   | <p><b>Item No.: 248-501/000-002</b><br/>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow</p>                                |   |  |

1.1.2.3 Marker carrier

|   |
|---|
|  |
| <p><b>Item No.: 750-103</b><br/>Group marker carrier</p>                            |

1.1.3 Shield termination

1.1.3.1 Shield clamping saddles

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

### 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