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

www.wago.com/750-517
Item description

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 switched status of the relay is shown by a LED.

Data

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of digital outputs</td>
<td>2</td>
</tr>
<tr>
<td>Total number of channels (module)</td>
<td>2</td>
</tr>
<tr>
<td>Actuator connection</td>
<td>2 x (1-conductor)</td>
</tr>
<tr>
<td>Output switching design</td>
<td>2 changeover contacts relay</td>
</tr>
<tr>
<td>Output characteristic</td>
<td>potential-free</td>
</tr>
<tr>
<td>Switching frequency max.</td>
<td>0.1 Hz; Nennlast</td>
</tr>
<tr>
<td>Switching frequency max.</td>
<td>0.1 Hz</td>
</tr>
<tr>
<td>Load type of the switching frequency</td>
<td>Nennlast</td>
</tr>
</tbody>
</table>
### Switching Voltage (max.)
- AC 250 V, DC 300 V

### Switching Current (max.)
- 1 A

### Switching Current, Information Note
- 1 A bei AC 250 V und DC 40 V; 0.15 A bei DC 300 V

### Switching Voltage (min.)
- 12 V

### Switching Current (min.)
- 100 mA

### Pull-in Time (max.)
- 8 ms

### Drop-out Time (max.)
- 4 ms

### Schaltspiele elektrisch min. (bei max. ohmscher Last)
- 10

### Schaltspiele mechanisch min. (bei max. ohmscher Last)
- 5

### Max Output Data Width (internal)
- 2 Bit

### System Supply Voltage
- DC 5 V; via data contacts

### Current Consumption, System Supply (5 V)
- 90 mA

### Isolation
- 1500 V system/field

### Indicators
- LED (A, E) green: Status relay 1, relay 2

### Connectors

#### Connection Technology: In-/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 inch

### Geometrical Data

#### Width
- 12 mm / 0.472 inch

#### Height
- 67.8 mm / 2.669 inch

#### Height from Upper-Edge of DIN-35 Rail
- 60.6 mm / 2.386 inch

#### Depth
- 100 mm / 3.937 inch

### Mechanical Data

#### Type of Mounting
- DIN-35 rail

### Material Data

#### Color
- Light gray

#### Contact Material
- Ag alloy

#### Housing Material
- Polycarbonate, polyamide 6.6

#### Fire Load
- 1.394 MJ

#### Weight
- 52.4 g

#### Conformity Marking
- CE
Environmental Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surrounding air (operating) temperature</td>
<td>0 … 55 °C</td>
</tr>
<tr>
<td>Surrounding air (storage) temperature</td>
<td>-40 … 85 °C</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20</td>
</tr>
<tr>
<td>Degree of pollution (5)</td>
<td>2 per IEC 61131-2</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>0 … 2000 m</td>
</tr>
<tr>
<td>Mounting position</td>
<td>horizontal (standing/lying) or vertical</td>
</tr>
<tr>
<td>Relative air humidity (no condensation)</td>
<td>95 %</td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>4g per IEC 60068-2-6</td>
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<tr>
<td>Shock resistance</td>
<td>15g per IEC 60068-2-27</td>
</tr>
<tr>
<td>EMC immunity to interference</td>
<td>acc. to EN 61000-6-2, marine applications</td>
</tr>
<tr>
<td>EMC emission of interference</td>
<td>acc. to EN 61000-6-4, marine applications</td>
</tr>
<tr>
<td>Exposure to pollutants</td>
<td>Per IEC 60068-2-42 and IEC 60068-2-43</td>
</tr>
<tr>
<td>Permissible H₂S contaminant concentration at a relative humidity 75 %</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Permissible SO₂ contaminant concentration at a relative humidity 75 %</td>
<td>25 ppm</td>
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Commercial data

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Group</td>
<td>15 (Remote I/O)</td>
</tr>
<tr>
<td>Packaging type</td>
<td>BOX</td>
</tr>
<tr>
<td>Country of origin</td>
<td>DE</td>
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<tr>
<td>GTIN</td>
<td>4045454393519</td>
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<tr>
<td>Customs Tariff No.</td>
<td>85371098990</td>
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</table>

Approvals / Certificates

Ex-Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Approval</th>
<th>Additional Approval Text</th>
<th>Certificate name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTB 0102</td>
<td>ATEX TUEV Nord Cert GmbH</td>
<td>EN 60079-0</td>
<td>TÜV 07 ATEX 554086 X en.</td>
</tr>
<tr>
<td></td>
<td>TUEV Nord TUEV Nord Cert GmbH</td>
<td>IEC 60079-0</td>
<td>IECEx TUN 09.0001 X</td>
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Country specific Approvals

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<tr>
<th>Logo</th>
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## Ship Approvals

<table>
<thead>
<tr>
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<th>Approval</th>
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<tbody>
<tr>
<td><img src="image" alt="ABS Logo" /></td>
<td>ABS</td>
<td>American Bureau of Shipping</td>
<td>19-HG1821926</td>
</tr>
<tr>
<td><img src="image" alt="BV Logo" /></td>
<td>BV</td>
<td>Bureau Veritas S.A.</td>
<td>13453/DO BV</td>
</tr>
<tr>
<td><img src="image" alt="DNV GL Logo" /></td>
<td>DNV GL</td>
<td>Det Norske Veritas, Germanischer Lloyd</td>
<td>TAA0000194</td>
</tr>
<tr>
<td><img src="image" alt="KR Logo" /></td>
<td>KR</td>
<td>Korean Register of Shipping</td>
<td>KR HMB05880-AC001</td>
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<tr>
<td><img src="image" alt="LR Logo" /></td>
<td>LR</td>
<td>Lloyds Register</td>
<td>02/20026 (E6)</td>
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<tr>
<td><img src="image" alt="NK Logo" /></td>
<td>NK</td>
<td>Nippon Kaiji Kyokai</td>
<td>TA17255M</td>
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<tr>
<td><img src="image" alt="PRS Logo" /></td>
<td>PRS</td>
<td>Polski Rejestr Statków</td>
<td>TE/2236/880590/19</td>
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<tr>
<td><img src="image" alt="RINA Logo" /></td>
<td>RINA</td>
<td>RINA Germany GmbH</td>
<td>ELE066419XG</td>
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## UL-Approvals

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<th>Logo</th>
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<tr>
<td><img src="image" alt="UL Logo" /></td>
<td>UL</td>
<td>UL International Netherlands B.V. (ORDINARY LOCATIONS)</td>
<td>E175199 Sec.1</td>
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</table>
## Compatible products

### Marking accessories

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
<th><a href="http://www.wago.com">www.wago.com</a></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2009-145</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; white</td>
<td><a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a></td>
<td></td>
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<tr>
<td>2009-145/000-002</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</td>
<td><a href="http://www.wago.com/2009-145/000-002">www.wago.com/2009-145/000-002</a></td>
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<tr>
<td>2009-145/000-005</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; red</td>
<td><a href="http://www.wago.com/2009-145/000-005">www.wago.com/2009-145/000-005</a></td>
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<tr>
<td>2009-145/000-006</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; blue</td>
<td><a href="http://www.wago.com/2009-145/000-006">www.wago.com/2009-145/000-006</a></td>
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<tr>
<td>2009-145/000-007</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; gray</td>
<td><a href="http://www.wago.com/2009-145/000-007">www.wago.com/2009-145/000-007</a></td>
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<tr>
<td>2009-145/000-012</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; orange</td>
<td><a href="http://www.wago.com/2009-145/000-012">www.wago.com/2009-145/000-012</a></td>
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<td>2009-145/000-023</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; green</td>
<td><a href="http://www.wago.com/2009-145/000-023">www.wago.com/2009-145/000-023</a></td>
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<tr>
<td>2009-145/000-024</td>
<td>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type; violet</td>
<td><a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a></td>
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<tr>
<td>248-501</td>
<td>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card</td>
<td><a href="http://www.wago.com/248-501">www.wago.com/248-501</a></td>
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<tr>
<td>248-501/000-002</td>
<td>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow</td>
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<td>248-501/000-005</td>
<td>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red</td>
<td><a href="http://www.wago.com/248-501/000-005">www.wago.com/248-501/000-005</a></td>
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<tr>
<td>248-501/000-006</td>
<td>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue</td>
<td><a href="http://www.wago.com/248-501/000-006">www.wago.com/248-501/000-006</a></td>
<td></td>
</tr>
</tbody>
</table>
Item no.: 248-501/000-007
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

Item no.: 248-501/000-012
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

Item no.: 248-501/000-017
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

Item no.: 248-501/000-023
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

Item no.: 248-501/000-024
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

Item no.: 750-100
Marker card; as a DIN A4 sheet; plain; white

Item no.: 750-103
Group marker carrier

Item no.: 750-106
Group marker carrier

**system box**

Item no.: 850-804
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip

Item no.: 850-804/000-001
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip

Item no.: 850-805
IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 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

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
www.wago.com/850-826

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
www.wago.com/850-826/002-000

Item no.: 850-827
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
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.: 850-828
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.: 850-828/002-000
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.: 850-834
IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20
www.wago.com/850-834

Item no.: 850-835
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
IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip
www.wago.com/850-836

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
www.wago.com/210-112

Item no.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715
www.wago.com/210-113

Item no.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715
www.wago.com/210-114

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
www.wago.com/210-115

Item no.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715
www.wago.com/210-118

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
www.wago.com/210-196

Item no.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715
www.wago.com/210-197

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
www.wago.com/210-198

Item no.: 210-504
Item no.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715
www.wago.com/210-504

Item no.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715
www.wago.com/210-505

Item no.: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715
www.wago.com/210-506

Item no.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715
www.wago.com/210-508

**Shield connection**

Item no.: 790-108
Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm
www.wago.com/790-108

Item no.: 790-116
Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm
www.wago.com/790-116

Item no.: 790-124
Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm
www.wago.com/790-124

Item no.: 790-140
Shield clamping saddle; diameter of compatible conductor
www.wago.com/790-140

Item no.: 790-208
Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm
www.wago.com/790-208

Item no.: 790-216
Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm
www.wago.com/790-216

Item no.: 790-220
Shield clamping saddle; 30 mm wide; 6 ... 20 mm
www.wago.com/790-220

**Downloads**

**Documentation**

**Manual**

2-channel, 230VAC, 1A isolated outputs, 2 changeover contacts

V 1.1.2 pdf 2.2 MB Download

**Bid Text**

750-517 doc - Datei

11.07.2017 doc 28.7 kB Download

750-517 X81 - Datei

19.02.2019 xml 4.5 kB Download

**Additional Information**

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0 pdf 265.8 kB Download
System Description

Use in Hazardous Environments
Term definition, marking and installation regulations

Design Notes
Basic conditions and recommendations for higher operational safety

750/753 Series I/O-System – General Product Information
Overview on WAGO-I/O-SYSTEM 750 approvals

CAD/CAE-Data

CAD data
2D/3D Models 750-517

CAE data
EPLAN Data Portal 750-517
WSCAD Universe 750-517

Device Files

Device Driver
WAGO USB Service Kabel Treiber / Serie 750 und 857

Installation Notes

Product family

750/753 Series – I/O System
Show all products from the family