Data sheet | Item number: 750-515
4-channel relay output; AC 250 V; 2.0 A; Potential-free; 4 make contacts;
www.wago.com/750-515

RoHS Compliant

BOMcheck.net
**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 via LEDs.

**Data**

**Technical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of digital outputs</td>
<td>4</td>
</tr>
<tr>
<td>Total number of channels (module)</td>
<td>4</td>
</tr>
<tr>
<td>Actuator connection</td>
<td>4 x (1-conductor)</td>
</tr>
<tr>
<td>Output switching design</td>
<td>4 make contacts</td>
</tr>
<tr>
<td></td>
<td>relay</td>
</tr>
<tr>
<td>Output characteristic</td>
<td>potential-free</td>
</tr>
<tr>
<td>Switching frequency max.</td>
<td>0.33 Hz; 3 A / AC 250 V, DC 30 V</td>
</tr>
<tr>
<td>Switching frequency max. (2)</td>
<td>0.1 Hz; 5 A / AC 250 V, DC 30 V</td>
</tr>
<tr>
<td>Switching frequency max.</td>
<td>0.33 Hz</td>
</tr>
</tbody>
</table>
Load type of the switching frequency | 3 A / AC 250 V, DC 30 V
---|---
Switching voltage (max.) | 250 V AC, 30 V DC; 110 V DC at 0.4 A V
Switching current max. | 2 A
Switching current, information note | 5 A AC/DC at 1-channel operation
Switching power | 1250 VA / 150 W; cos $\varphi$ max. = 0.4; L/R max. = 7 ms
Pull-in time (max.) | 10 ms
Drop-out time (max.) | 5 ms
Bounce time (typ.) | 1 ms
Max output data width (internal) | 4 Bit
System supply voltage | DC 5 V; via data contacts
Current consumption, system supply (5 V) | 95 mA
Isolation | 1500 V system/field
Indicators | Green LED (A-D): Status relay 1 … relay 4

Connection data

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

Contact material | AgNi + Au
Housing material | Polycarbonate, polyamide 6.6
Weight | 70.8 g
Conformity marking | CE

Environmental Requirements

Surrounding air (operating) temperature | 0 … 55 °C
Surrounding air (storage) temperature | -40 … 85 °C
### Protection class
- IP20

### Degree of pollution (5)
- 2 per IEC 61131-2

### Operating altitude
- 0 ... 2000 m

### Mounting position
- horizontal (standing/lying) or vertical

### Relative air humidity (no condensation)
- 95%

### Vibration resistance
- acc. to IEC 60068-2-6

### Shock resistance
- 15g per IEC 60068-2-27

### EMC immunity to interference
- acc. to EN 61000-6-2, marine applications

### EMC emission of interference
- acc. to EN 61000-6-3, marine applications

### Exposure to pollutants
- Per IEC 60068-2-42 and IEC 60068-2-43

| Permissible H₂S contaminant concentration at a relative humidity 75% | 10 ppm |
| Permissible SO₂ contaminant concentration at a relative humidity 75% | 25 ppm |

### Commercial data

| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4055143512831 |
| Customs Tariff No. | 85371098990 |

### Approvals / Certificates

#### Ex-Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Approval</th>
<th>Additional Approval Text</th>
<th>Certificate name</th>
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<tbody>
<tr>
<td><img src="logo.png" alt="PTB" /></td>
<td>ATEX</td>
<td>TUEV Nord Cert GmbH</td>
<td>EN 60079</td>
</tr>
<tr>
<td><img src="logo.png" alt="IECEx" /></td>
<td>IECEx</td>
<td>TUEV Nord Cert GmbH</td>
<td>IEC 60079-0</td>
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#### Country specific Approvals

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<tbody>
<tr>
<td><img src="logo.png" alt="KC" /></td>
<td>KC</td>
<td>National Radio Research Agency</td>
<td>Article 58-2, Clause 3</td>
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</table>

### Ship Approvals

Certificate
### Logo | Approval | Additional Approval Text | name
---|---|---|---
[ABS](https://www.abs.com) | American Bureau of Shipping | - | 19- HG1821926

[DNV GL](https://www.dnvgl.com) | Det Norske Veritas, Germanischer Lloyd | - | TAA0000194

[LR](https://www.lloydsregister.com) | Lloyds Register | - | 02/20026 (E6)

[PRS](https://www.prs.pl) | Polski Rejestr Statków | - | TE/2236 /880590/19

[RINA](https://www.rina.org) | RINA Germany GmbH | - | ELE066419XG

### UL-Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Approval</th>
<th>Additional Approval Text</th>
<th>Certificate name</th>
</tr>
</thead>
</table>
| [UL](https://www.ul.com) | Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 61010-2-201 | E175199 Sec10

### Compatible products

**system box**

| Item no.: 850-804 | IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip | [www.wago.com/850-804](https://www.wago.com/850-804) |

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

| Item no.: 850-805 | IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip | [www.wago.com/850-805](https://www.wago.com/850-805) |

<p>| Item no.: 850-814/002-000 | IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate | <a href="https://www.wago.com/850-814/002-000">www.wago.com/850-814/002-000</a> |</p>
<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
<th>Web Link</th>
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<tbody>
<tr>
<td>850-815/002-000</td>
<td>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate</td>
<td><a href="http://www.wago.com/850-815/002-000">www.wago.com/850-815/002-000</a></td>
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<tr>
<td>850-816/002-000</td>
<td>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate</td>
<td><a href="http://www.wago.com/850-816/002-000">www.wago.com/850-816/002-000</a></td>
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<tr>
<td>850-817/002-000</td>
<td>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate</td>
<td><a href="http://www.wago.com/850-817/002-000">www.wago.com/850-817/002-000</a></td>
</tr>
<tr>
<td>850-825</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20</td>
<td><a href="http://www.wago.com/850-825">www.wago.com/850-825</a></td>
</tr>
<tr>
<td>850-826</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-826">www.wago.com/850-826</a></td>
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<tr>
<td>850-826/002-000</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-826/002-000">www.wago.com/850-826/002-000</a></td>
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<td>850-827</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-827">www.wago.com/850-827</a></td>
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<tr>
<td>850-827/002-000</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-827/002-000">www.wago.com/850-827/002-000</a></td>
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<td>850-828</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-828">www.wago.com/850-828</a></td>
</tr>
<tr>
<td>850-828/002-000</td>
<td>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-828/002-000">www.wago.com/850-828/002-000</a></td>
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<tr>
<td>850-834</td>
<td>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20</td>
<td><a href="http://www.wago.com/850-834">www.wago.com/850-834</a></td>
</tr>
<tr>
<td>850-835</td>
<td>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-835">www.wago.com/850-835</a></td>
</tr>
<tr>
<td>850-836</td>
<td>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip</td>
<td><a href="http://www.wago.com/850-836">www.wago.com/850-836</a></td>
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**Marking accessories**

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
<th>Web Link</th>
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</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>
</tr>
<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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<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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<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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<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>
</tr>
<tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>248-501/000-002</td>
<td>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow</td>
<td><a href="http://www.wago.com/248-501/000-002">www.wago.com/248-501/000-002</a></td>
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<td>248-501/000-005</td>
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<td>248-501/000-017</td>
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<tr>
<td>248-501/000-024</td>
<td>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet</td>
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<tr>
<td>750-103</td>
<td>Group marker carrier</td>
<td><a href="http://www.wago.com/750-103">www.wago.com/750-103</a></td>
</tr>
</tbody>
</table>
### Item no.: 750-107
Group marker carrier

www.wago.com/750-107

### 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

### Carrier rail

#### 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
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
Data sheet | Item number: 750-515
www.wago.com/750-515

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

Downloads

Documentation

Manual
4-channel, 250 VAC, 2 A
Isolated outputs; 4 make contact

Bid Text
750-515
X81 - Datei
19.02.2019
xml
4.8 kB
Download

750-515
docx - Datei
18.06.2019
docx
18.2 kB
Download

Additional Information
Disposal; Electrical and electronic equipment, Packaging

System Description
Overview on WAGO-I/O-SYSTEM 750 approvals

Design Notes
Basic conditions and recommendations for higher operational safety

Use in Hazardous Environments
Term definition, marking and installation regulations

750/753 Series I/O-System – General Product Information

CAD/CAE-Data

CAD data
2D/3D Models 750-515

CAE data
EPLAN Data Portal 750-515
WSCAD Universe 750-515
Installation Notes

Product family

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