

## Data sheet | Item number: 750-508

2-channel digital output; 24 VDC; 2.0 A; Diagnostics; light gray

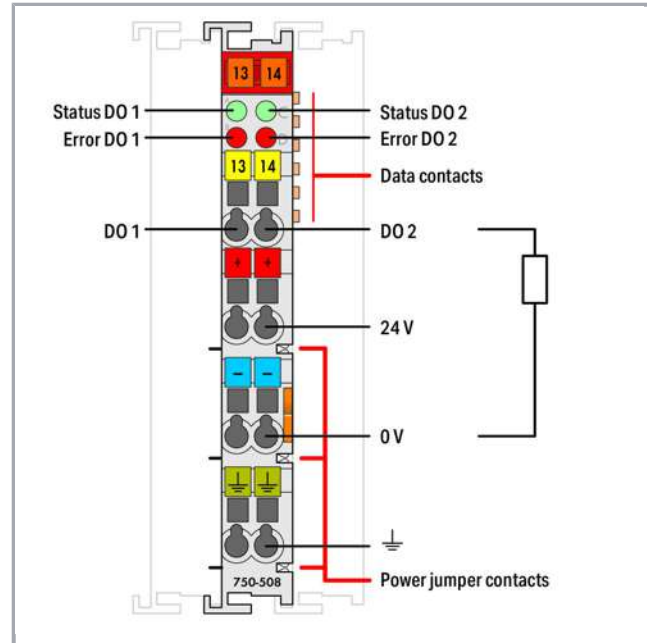
[www.wago.com/750-508](http://www.wago.com/750-508)



RoHS   
Compliant

BOMcheck.net

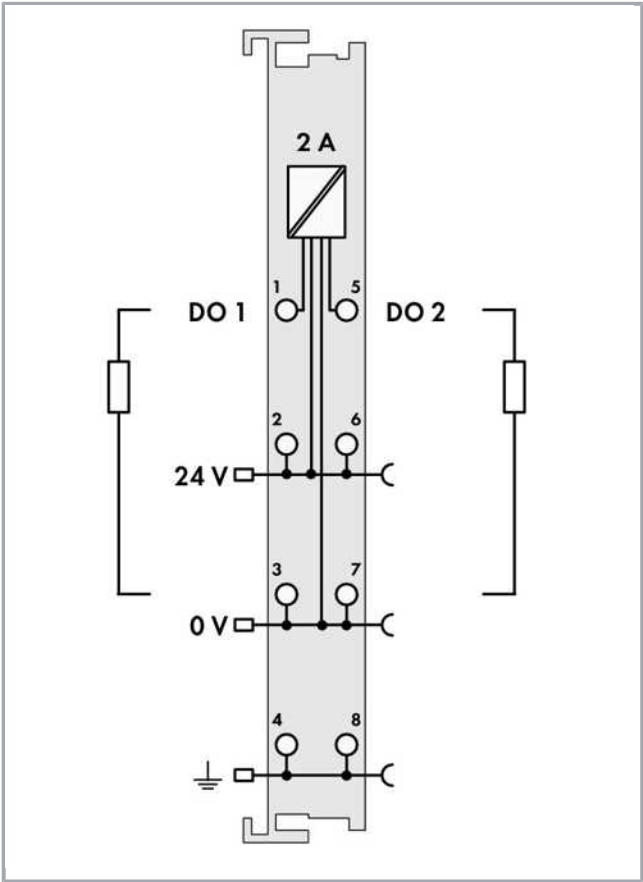
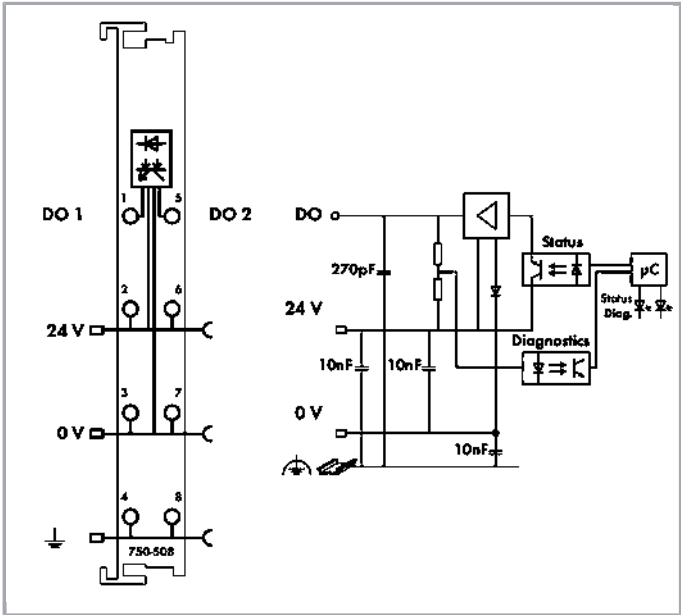
Color:



Subject to changes. Please also observe the further product documentation!

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Item description

This digital output module transmits control signals from the automation device to the connected actuators.

All outputs are short-circuit-protected.

The module detects the following errors: overload, short circuit and wire break.

The status is transmitted to the fieldbus coupler and indicated by LEDs.

Field and system levels are electrically isolated.

Data  
Technical Data

|                                   |         |
|-----------------------------------|---------|
| Number of digital outputs         | 2       |
| Total number of channels (module) | 2       |
| Type of signal                    | Voltage |
| Type of signal voltage            | DC 24 V |

Subject to changes. Please also observe the further product documentation!



|                                                                  |                                                                                                                      |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Actuator connection                                              | 2 x (2-wire, 3-wire, 4-wire)                                                                                         |
| Output characteristic                                            | high-side switching                                                                                                  |
| Output current per channel                                       | 2 A                                                                                                                  |
| Output current                                                   | short-circuit-protected                                                                                              |
| Switching frequency max.                                         | 1 kHz                                                                                                                |
| Type of load                                                     | Resistive, inductive, lamp load                                                                                      |
| Diagnostics                                                      | Open circuit, overload and short circuit                                                                             |
| Reverse voltage protection                                       | yes                                                                                                                  |
| Open-circuit detection                                           | 0.2 mA                                                                                                               |
| Short-circuit limitation typ. Pwm                                | 15 A                                                                                                                 |
| Max input data width (internal)                                  | 2 Bit                                                                                                                |
| Max output data width (internal)                                 | 2 Bit                                                                                                                |
| System supply voltage                                            | DC 5 V; via data contacts                                                                                            |
| Current consumption, system supply (5 V)                         | 14 mA                                                                                                                |
| Field supply voltage                                             | DC 24 V (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Current consumption, field supply (module with no external load) | 7 mA                                                                                                                 |
| Isolation                                                        | 500 V system/field                                                                                                   |
| Indicators                                                       | LED (A, C) green: Status DO 1, DO 2; LED (B, D) red: Error DO 1, DO 2                                                |
| Number of incoming power jumper contacts                         | 3                                                                                                                    |
| Number of outgoing power jumper contacts                         | 3                                                                                                                    |
| Current carrying capacity of the power jumper contacts           | 10 A                                                                                                                 |

## 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                                | 69,8 mm / 2.748 inch |
| Height from upper-edge of DIN-35 rail | 62,6 mm / 2.465 inch |
| Depth                                 | 100 mm / 3.937 inch  |

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## Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

## Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Weight             | 47.8 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); vertical |
| Relative air humidity (no 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 61000-6-3, 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 (Remote I/O) |
| Packaging type     | BOX             |
| Country of origin  | DE              |
| GTIN               | 4045454801229   |
| Customs Tariff No. | 85371098990     |

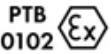
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## Approvals / Certificates

### Ex-Approvals

| Logo                                                                             | Approval                                                          | Additional Approval Text | Certificate name                  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------|-----------------------------------|
|  | <b>ATEX</b><br>TUEV Nord Cert GmbH                                | EN 60079-0               | TÜV 07<br>ATEX<br>554086 X<br>en. |
|  | <b>TUEV Nord</b><br>TUEV Nord Cert GmbH                           | IEC 60079-0              | IECEX<br>TUN<br>09.0001 X         |
|  | <b>UL</b><br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201                | E198726<br>Sec.1                  |

### Country specific Approvals

| Logo                                                                               | Approval                                    | Additional Approval Text | Certificate name            |
|------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|-----------------------------|
|  | <b>KC</b><br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>DOM750 |

### Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1821926 |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | -                        | 30389/B0 BV      |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194       |
|                                                                                     | <b>KR</b>                                               | -                        | KR               |

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Korean Register of Shipping

HMB05880-  
AC001LR  
Lloyds Register

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NK  
Nippon Kaiji Kyokai

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TA17255M

PRS  
Polski Rejestr Statków

-

TE/2236  
/880590/19RINA  
RINA Germany GmbH

-

ELE066419XG

## UL-Approvals

| Logo                                                                               | Approval                                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508                   | E175199<br>Sec.1 |

## Counterpart

## Compatible products

## shield connection



## Item no.: 790-108

Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm

[www.wago.com/790-108](http://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](http://www.wago.com/790-116)

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|                                                                                    |                                                                                                                                        |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Item no.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm                          | <a href="http://www.wago.com/790-124">www.wago.com/790-124</a> |
|    | <b>Item no.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                                                   | <a href="http://www.wago.com/790-140">www.wago.com/790-140</a> |
|    | <b>Item no.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm                                                           | <a href="http://www.wago.com/790-208">www.wago.com/790-208</a> |
|    | <b>Item no.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm                                                          | <a href="http://www.wago.com/790-216">www.wago.com/790-216</a> |
|    | <b>Item no.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm                                                            | <a href="http://www.wago.com/790-220">www.wago.com/790-220</a> |
| <b>Carrier rail</b>                                                                |                                                                                                                                        |                                                                |
|    | <b>Item no.: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm   | <a href="http://www.wago.com/210-112">www.wago.com/210-112</a> |
|    | <b>Item no.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                    | <a href="http://www.wago.com/210-113">www.wago.com/210-113</a> |
|    | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                     | <a href="http://www.wago.com/210-114">www.wago.com/210-114</a> |
|   | <b>Item no.: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm   | <a href="http://www.wago.com/210-115">www.wago.com/210-115</a> |
|  | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                   | <a href="http://www.wago.com/210-118">www.wago.com/210-118</a> |
|  | <b>Item no.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored | <a href="http://www.wago.com/210-196">www.wago.com/210-196</a> |
|  | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                       | <a href="http://www.wago.com/210-197">www.wago.com/210-197</a> |
|  | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored  | <a href="http://www.wago.com/210-198">www.wago.com/210-198</a> |
|  | <b>Item no.: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715          | <a href="http://www.wago.com/210-504">www.wago.com/210-504</a> |
|  | <b>Item no.: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715        | <a href="http://www.wago.com/210-505">www.wago.com/210-505</a> |
|  | <b>Item no.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715         | <a href="http://www.wago.com/210-506">www.wago.com/210-506</a> |
|  | <b>Item no.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715           | <a href="http://www.wago.com/210-508">www.wago.com/210-508</a> |
| <b>Marking accessories</b>                                                         |                                                                                                                                        |                                                                |

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|                                                                                    |                                                                                                                                                            |                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | <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                   | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <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; white /000-002  | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <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 /000-005    | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <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 /000-006   | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <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; white /000-007  | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <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 /000-012 | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|    | <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 /000-023  | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|  | <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 /000-024 | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a> |
|  | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card                               | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |
|  | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow /000-002                                  | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |
|  | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red /000-005                                     | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |
|  | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue /000-006                                    | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |
|  | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray /000-007                                    | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |
|  | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange /000-012                                  | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>   |

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**Item no.: 248-501/000-017**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/248-501/000-017](http://www.wago.com/248-501/000-017)**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/248-501/000-023](http://www.wago.com/248-501/000-023)**Item no.: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/248-501/000-024](http://www.wago.com/248-501/000-024)**Item no.: 750-100**

Marker card; as a DIN A4 sheet; plain; white

[www.wago.com/750-100](http://www.wago.com/750-100)**Item no.: 750-103**

Group marker carrier; transparent

[www.wago.com/750-103](http://www.wago.com/750-103)**Item no.: 750-106**

Group marker carrier; transparent

[www.wago.com/750-106](http://www.wago.com/750-106)**Supply module****Item no.: 750-601**

Power Supply; 24 VDC; fuse holder; light gray

[www.wago.com/750-601](http://www.wago.com/750-601)**Item no.: 750-602**

Power Supply; 24 VDC; light gray

[www.wago.com/750-602](http://www.wago.com/750-602)**Item no.: 750-610**

Power Supply; 24 VDC; fuse holder; Diagnostics

[www.wago.com/750-610](http://www.wago.com/750-610)**Item no.: 750-612**

Power Supply; 0 ... 230 V AC/DC; light gray

[www.wago.com/750-612](http://www.wago.com/750-612)**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](http://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](http://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](http://www.wago.com/850-805)**Item no.: 850-814/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate

[www.wago.com/850-814/002-000](http://www.wago.com/850-814/002-000)**Item no.: 850-815/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate

[www.wago.com/850-815/002-000](http://www.wago.com/850-815/002-000)

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**Item no.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate

[www.wago.com/850-816/002-000](http://www.wago.com/850-816/002-000)**Item no.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

[www.wago.com/850-817/002-000](http://www.wago.com/850-817/002-000)**Item no.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

[www.wago.com/850-825](http://www.wago.com/850-825)**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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://www.wago.com/850-836)

## Downloads

### Documentation

#### Manual

2-channel, 24VDC, 2.0A, with diagnostics  
short-circuit protected, high-side switching

V 1.2.0

pdf  
866.7 kB

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#### Bid Text

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Do you have any questions about our products?  
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| 750-508<br>doc - Datei | Jul 12, 2017 | doc<br>30.2 kB | Download |
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| 750-508<br>X81 - Datei | Feb 19, 2019 | xml<br>4.7 kB | Download |
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#### Additional Information

|                                                          |         |                 |          |
|----------------------------------------------------------|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
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#### System Description

|                                                                                        |         |               |          |
|----------------------------------------------------------------------------------------|---------|---------------|----------|
| Use in Hazardous Environments<br>Term definition, marking and installation regulations | V 1.0.0 | pdf<br>1.0 MB | Download |
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| Overview on WAGO-I/O-SYSTEM 750 approvals |  | pdf<br>780.2 kB | Download |
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| Design Notes<br>Basic conditions and recommendations for higher operational safety | V 2.0.0 | pdf<br>1.5 MB | Download |
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| 750/753 Series I/O-System – General Product Information |  | pdf<br>1.7 MB | Download |
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#### CAD/CAE-Data

##### CAD data

|                      |  |     |          |
|----------------------|--|-----|----------|
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|----------------------|--|-----|----------|

##### CAE data

|                           |  |     |          |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 750-508 |  | URL | Download |
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|                        |  |     |          |
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| WSCAD Universe 750-508 |  | URL | Download |
|------------------------|--|-----|----------|

#### Device Files

##### Device Driver

|                                                    |                         |               |          |
|----------------------------------------------------|-------------------------|---------------|----------|
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0<br>Sep 10, 2014 | zip<br>4.8 MB | Download |
|----------------------------------------------------|-------------------------|---------------|----------|

Subject to changes. Please also observe the further product documentation!



## Installation Notes

## Product family

**750/753 Series – I/O System**

[Show all products from the family](#)

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