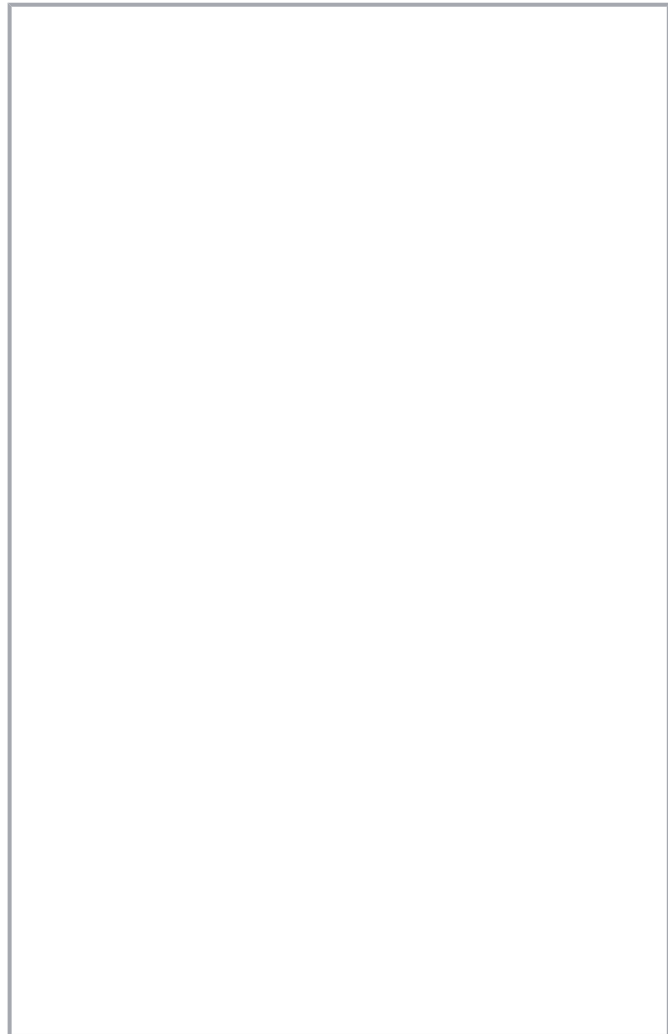
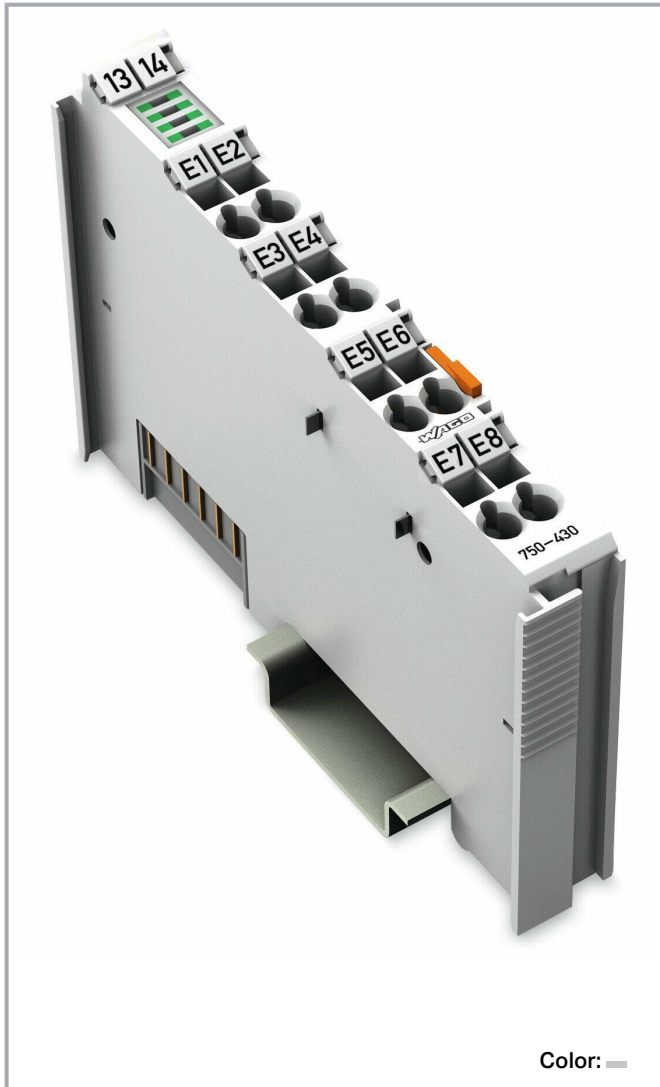


Data sheet | Item number: 750-430
8-channel digital input; 24 VDC; 3 ms

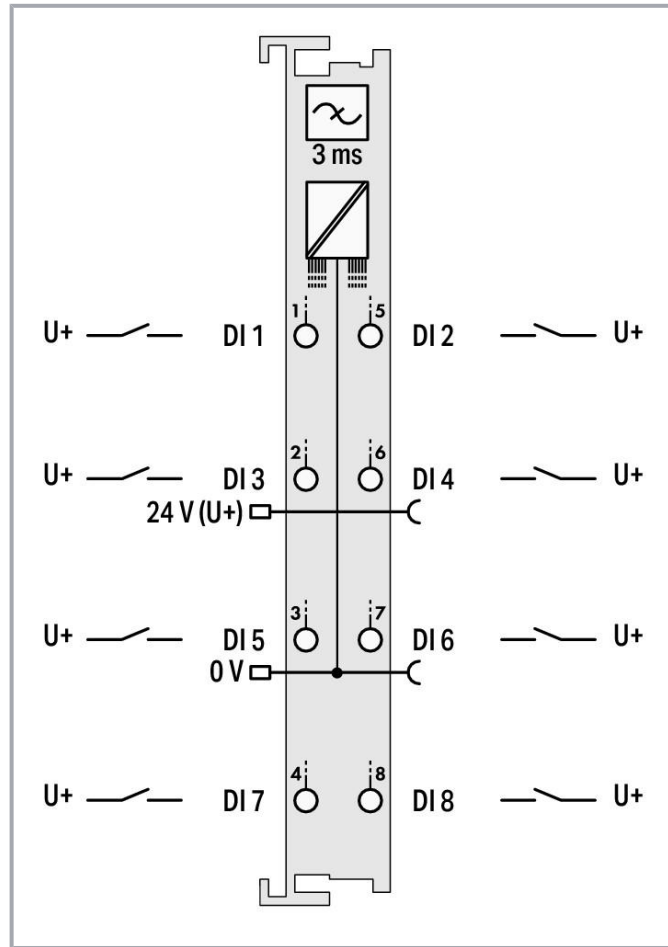
www.wago.com/750-430



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

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Item description

This digital input module features eight channels in a width of just 12 mm (0.47 inch). It receives control signals from digital field devices (e.g., sensors).

Each input module has a noise-rejection filter.

Field and system levels are electrically isolated.

Data

Technical data

| | |
|-----------------------------------|---|
| Number of digital inputs | 8 |
| Total number of channels (module) | 8 |

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| | |
|---|---|
| Signal type | Voltage |
| Signal type (voltage) | 24 VDC |
| Sensor connection | 8 x (1-wire) |
| Input characteristic | high-side switching |
| Input filter (digital) | 3 ms |
| Input current per channel for signal (1) typ. | 2.8 mA |
| Voltage range for signal (0) | -3 ... +5 VDC |
| Voltage range for signal (1) | 15 ... 30 VDC |
| Input data width (internal) max. | 8 bits |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (5 V system supply) | 17 mA |
| Supply voltage (field) | 24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation | 500 V system/field |
| Indicators | LED (A-D) green: Status DI 1, DI 3, DI 5, DI 7; LED (E-H) green: Status DI 2, DI 4, DI 6, DI 8 |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |
| Current carrying capacity (power jumper contacts) | 10 A |

Connection data

| | |
|---------------------------------------|--|
| Connection technology: inputs/outputs | 8 x CAGE CLAMP® |
| Connection type 1 | Inputs/Outputs |
| Solid conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inch |

Physical data

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

Mechanical data

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

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



Material data

| | |
|--------------------|------------------------------|
| Color | light gray |
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 1.174 MJ |
| Weight | 47 g |
| Conformity marking | CE |

Environmental requirements

| | |
|--|---------------------------------------|
| Ambient temperature (operation) | 0 ... +55 °C |
| Surrounding air temperature (storage) | -25 ... +85 °C |
| Protection type | IP20 |
| Pollution degree (5) | 2 per IEC 61131-2 |
| Operating altitude | 0 ... 2000 m / 0 ... 6562 ft |
| Mounting position | horizontal (standing/lying); vertical |
| 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 ₂ S 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 (Remote I/O) |
| PU (SPU) | 1 Stück |
| Packaging type | box |
| Country of origin VKOrg Germany | DE |
| GTIN | 4045454392802 |
| Customs tariff number VKOrg Germany | 85389099990 |

Approvals / Certificates

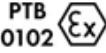




Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|



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| | | | |
|---|---|------------------------------|---|
|  | ATEX TUEV Nord Cert GmbH | EN 60079-0 | TUEV_14_ATEX_148929_X (II 3 G Ex ec IIC T4 Gc) |
|  | CCCEX CQST/CNEx | CNCA-C23-01 | 202031231000215 (Ex nA IIC T4 Gc) |
|  | EAC Brjansker Zertifizierungsstelle | TP TC 012/2011 | EAC RU C-DE.AM02.B. 00163/19 (2Ex nA IIC T4 Gc X) |
|  | IECEX TUEV Nord Cert GmbH | IEC 60079-0 | IECEX_TUN_14.0035_X (Ex ec IIC T4 Gc) |
|  | INMETRO TÜV Rheinland do Brasil Ltda. UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | IEC 60079-0 UL 121201 | BR-Ex TÜV 12.1297 X E198726 Sec.1 |







Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|---|
|  | EAC Brjansker Zertifizierungsstelle | TP TC 020/2011 | EAC RU C- DE.AM02. B.00087 /19 |
|  | KC National Radio Research Agency | Article 58-2, Clause 3 | MSIP- REM-W43- DIM750 |


Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|  | ABS American Bureau of Shipping | - | 22-2219060 |
|  | BSH Bundesamt fuer Seeschifffahrt und Hydrographie | - | 1104 |

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



| | | | |
|--|--|------------------------|--------------------|
|  | BV Bureau Veritas S.A. | - | 13453/E0 BV |
| | DNV DNV Germany GmbH | DNV-CG-0339, Aug. 2021 | TAA0000194 |
|  | KR Korean Register of Shipping | - | KR HMB05880-AC001 |
|  | LR Lloyds Register EMEA | - | 02/20026 (E6) |
|  | NK Nippon Kaiji Kyokai | - | TA17255M |
|  | PRS Polski Rejestr Statków | - | TE/2236/880590 /19 |
|  | RINA RINA Germany GmbH | - | ELE343521XG001 |

UL-Approvals






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

Optional accessories

Shield termination

| Shield clamping saddles | | |
|--|---|--|
|  | 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 |

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

| | | |
|--|---|--|
|  | Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm | www.wago.com/790-108 |
|  | Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor | www.wago.com/790-140 |
| | 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 |
| | Item no.: 790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm | www.wago.com/790-208 |
| System housing | | |
| System enclosure | | |
| | 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 |
| | 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 |
| | 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 |
| | 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 |
|  | Item no.: 850-825 IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20 | 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 |
|  | 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.: 850-826/002-000 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.: 850-828/002-000 | |

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

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.: 850-828**

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.: 850-834

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

Supply module

Supply module

Item no.: 750-601

Power Supply; 24 VDC; fuse holder

www.wago.com/750-601

Item no.: 750-610

Power Supply; 24 VDC; fuse holder; Diagnostics

www.wago.com/750-610

Item no.: 750-602

Power Supply; 24 VDC

www.wago.com/750-602

Item no.: 750-612

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

www.wago.com/750-612

Marking accessories

Marker carrier

Item no.: 750-103

Group marker carrier

www.wago.com/750-103

Marker

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

www.wago.com/2009-145/000-006

Item no.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-145

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

www.wago.com/2009-145/000-002

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

www.wago.com/2009-145/000-007

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| | | |
|--|---|---|
| | <p>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</p> | <p>www.wago.com/2009-145/000-005</p> |
| | <p>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</p> | <p>www.wago.com/2009-145/000-012</p> |
| | <p>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</p> | <p>www.wago.com/2009-145/000-023</p> |
| | <p>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</p> | <p>www.wago.com/2009-145/000-024</p> |
|  | <p>Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue</p> | <p>www.wago.com/248-501/000-006</p> |
|  | <p>Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray</p> | <p>www.wago.com/248-501/000-007</p> |
|  | <p>Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow</p> | <p>www.wago.com/248-501/000-002</p> |
|  | <p>Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange</p> | <p>www.wago.com/248-501/000-012</p> |
|  | <p>Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white</p> | <p>www.wago.com/248-501</p> |
|  | <p>Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green</p> | <p>www.wago.com/248-501/000-017</p> |
|  | <p>Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red</p> | <p>www.wago.com/248-501/000-005</p> |
|  | <p>Item no.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet</p> | <p>www.wago.com/248-501/000-024</p> |

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



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

Group marker carrier

Item no.: 750-107
 Group marker carrier

www.wago.com/750-107

Carrier rail

Mounting accessories

Item no.: 210-197

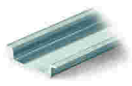
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

www.wago.com/210-197
Item no.: 210-198

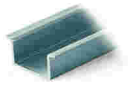
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

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; silver-colored

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; silver-colored

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; silver-colored

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; silver-colored

www.wago.com/210-508
**Item no.: 210-113**

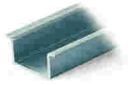
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

www.wago.com/210-113
**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

www.wago.com/210-118
**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

www.wago.com/210-112
**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

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; silver-colored

www.wago.com/210-115
**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

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

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Downloads

Documentation

Manual

| | | | |
|--|------------------------|---------------|----------|
| System Manual WAGO I/O System 750 / 753 Decentralized Automation Technology | V 3.0.5 2022 Mar 15 | pdf 8.6 MB | Download |
| 8-channel, 24VDC, 3.0ms 1-conductor connection; high-side switching | V 1.3.0 | pdf 2.0 MB | Download |
| System Manual Series 750/753 Online HTML | | URL | Download |

Bid Text

| | | | |
|-------------------------|-------------|-----------------|----------|
| 750-430 docx - Datei | 2019 Jun 26 | docx 15.3 kB | Download |
| 750-430 X81 - Datei | 2019 Feb 19 | xml 3.9 kB | Download |
| ausschreiben.de 750-430 | | URL | Download |

System Description

| | | | |
|--|---------|-----------------|----------|
| Use in Hazardous Environments Term definition, marking and installation regulations | V 1.0.0 | pdf 1.0 MB | Download |
| Overview on WAGO-I/O-SYSTEM 750 approvals | | pdf 789.0 kB | Download |
| 750/753 Series I/O-System – General Product Information | | pdf 1.7 MB | Download |

Additional Information

| | | | |
|--|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf 265.8 kB | Download |
|--|---------|-----------------|----------|

CAD/CAE-Data

CAD data

| | | | |
|----------------------|--|-----|----------|
| 2D/3D Models 750-430 | | URL | Download |
|----------------------|--|-----|----------|

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CAE data

| | | |
|---|---------------------|--------------------------|
| EPLAN Data Portal 750-430 | URL | Download |
| WSCAD Universe 750-430 | URL | Download |
| ZUKEN Portal 750-430 | URL | Download |

Device Files

Device Driver

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

Environmental Product Compliance

Compliance Search

| | | |
|---|---------------------|--------------------------|
| Environmental Product Compliance 750-430 8-channel digital input; 24 VDC; 3 ms | URL | Download |
|---|---------------------|--------------------------|

Installation Notes

Product family

WAGO I/O System 750/753
[Show all products from the family](#)

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