

Data sheet | Item number: 753-434

8-channel digital input; 5/12 VDC; 0.2 ms

www.wago.com/753-434



Color:



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

WAGO GmbH & Co. KG
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Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
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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.

Notice:

An additional supply module must be added for 5–14 VDC supply!

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



Data Notes

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| Note | Pluggable connectors and coding fingers (753 Series) are not included. |
|------|--|

Technical data

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|---|---|
| Number of digital inputs | 8 |
| Total number of channels (module) | 8 |
| Signal type | Digital |
| Signal type (voltage) | 5 VDC; 12 VDC |
| Sensor connection | 8 x (1-wire) |
| Input characteristic | high-side switching |
| Input filter (digital) | 0.2 ms |
| Input current at specific input voltage | 0.06 mA at 12 V |
| Voltage range for signal (0) | -3 ... 0.2 x U _V DC |
| Voltage range for signal (1) | 0.5 x U _V ... 1.1 x U _V DC |
| Input data width (internal) max. | 8 bits |
| Input resistance | 100,000 Ω |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (5 V system supply) | 4 mA |
| Supply voltage (field) | 14 VDC; 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

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|---------------------------------------|--|
| Connection technology: inputs/outputs | 8 x CAGE CLAMP® |
| Connection type 1 | Inputs/outputs |
| Solid conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |

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



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|-------------------------|--|
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Strip length | 9 ... 10 mm / 0.35 ... 0.39 inches |

Physical data

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|-----------------------------------|------------------------|
| Width | 12 mm / 0.472 inches |
| Height | 100 mm / 3.937 inches |
| Depth | 69 mm / 2.717 inches |
| Depth from upper-edge of DIN-rail | 61.8 mm / 2.433 inches |

Mechanical Data

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

Material Data

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|--------------------|------------------------------|
| Color | light gray |
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 1.076 MJ |
| Weight | 40.3 g |
| Conformity marking | CE |

Environmental requirements

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|--|---------------------------------------|
| 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 (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 61131-2, marine applications |
| EMC emission of interference | per EN 61131-2, 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 |

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Commercial data

| | |
|-----------------------|-----------------|
| Product Group | 15 (I/O System) |
| eCl@ss 10.0 | 27-24-26-04 |
| eCl@ss 9.0 | 27-24-26-04 |
| ETIM 8.0 | EC001599 |
| ETIM 7.0 | EC001599 |
| Recupel Type | |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821041955 |
| Customs tariff number | 85389099990 |

Environmental Product Compliance

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|---|---|
| CAS-No. | 1317-36-8 7439-92-1 79-94-7 |
| REACH Candidate List Substance | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead Lead monoxide |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) 7(a) 7(c)-I 7(c)-II |
| SCIP notification number (Bulgaria) | a78c7551-1364-46b5-8723-f204fd36e0e0 |
| SCIP notification number (Czech Republic) | 53090ce8-2220-4e78-a687-04526693f62a |

Approvals / Certificates**General 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- |

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DIM750

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| UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.1 |
|--|--------|------------------|

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------|-----------------------|
| | ABS American Bureau of Shipping | - | 22-2219060 |
| | BSH Bundesamt fuer Seeschifffahrt und Hydrographie | - | 1104 |
| | DNV DNV GL SE | DNV-CG-0339, Aug. 2021 | TAA0000194 |
| | LR Lloyds Register EMEA | - | LR22180952TA |
| | PRS Polski Rejestr Statków | - | TE/2236/880590 /19 |
| | RINA RINA Germany GmbH | - | ELE343521XG001 |

Approvals for hazardous areas

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|--|
| | ATEX TUEV Nord Cert GmbH | EN 60079-0 | TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc) |
| | CCCEX CQST/CNEx | CNCA-C23-01 | 2020312310000213 (Ex ec 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. | IEC 60079-0 | BR-Ex_TÜV 12.1297 X |
| | UKEx WAGO GmbH & Co. KG | EN 60079-0 | UKCA_WAGO22UKEX003X_ec |
| | UL Underwriters Laboratories Inc. (HAZARDOUS) | UL 121201 | E198726 Sec.1 |

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LOCATIONS)

Required accessories

Pluggable connector

Male connector/plug

Item no.: 753-110

Plug

www.wago.com/753-110

Optional accessories

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 /000-006

www.wago.com/2009-145

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 /000-007

www.wago.com/2009-145

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 /000-005

www.wago.com/2009-145

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

www.wago.com/2009-145
/000-012

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

www.wago.com/2009-145
/000-023

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

www.wago.com/2009-145
/000-024

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|--|--|
| Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue | www.wago.com/248-501/000-006 |
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| Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray | www.wago.com/248-501/000-007 |
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| Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow | www.wago.com/248-501/000-002 |
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| Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange | www.wago.com/248-501/000-012 |
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| Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/248-501 |
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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 |
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| Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red | www.wago.com/248-501/000-005 |
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| 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 |
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| 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 |
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Group marker carrier

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| Item no.: 750-107 Group marker carrier | www.wago.com/750-107 |
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System housing

System enclosure

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



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| 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 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 |
| 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 |

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



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| 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 |

Pluggable connector

Coding

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| Item no.: 753-150 753 Series coding elements | www.wago.com/753-150 |
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Shield termination

Shield clamping saddles

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|---|--|
| 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.: 790-108 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 |

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



Supply module

| Supply module | | |
|--|--|--|
| Item no.: 750-612 Power Supply; 0 ... 230 V AC/DC | | www.wago.com/750-612 |
| Item no.: 753-612 Power Supply; 0 ... 230 V AC/DC | | www.wago.com/753-612 |

Downloads

Documentation

Manual

| | | | |
|--|-------------------------|---------------|----------|
| System Manual WAGO I/O System 750/753 Decentralized Automation Technology | V 3.3.3 2023 年8月29 日 | pdf 8.7 MB | Download |
| System Manual Series 750/753 Online HTML | | URL | Download |

Bid Text

| | | | |
|------------------------|--------------|----------------|----------|
| 753-434 X81 - Datei | 2019 年2月19 日 | xml 4.5 kB | Download |
| 753-434 doc - Datei | 2017 年7月13 日 | doc 27.6 kB | Download |

Instruction Leaflet

| | | | |
|--|--------------|-----------------|----------|
| CCC Ex (Additional information) WAGO-I/O-SYSTEM *750-****/* | 2023 年4月26 日 | pdf 163.6 kB | Download |
|--|--------------|-----------------|----------|

Additional Information

| | | | |
|---|-------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 年8月18 日 | pdf 2.2 MB | Download |
|---|-------------------------|---------------|----------|

System Description

| | | | |
|---|--|-----------------|----------|
| 750/753 Series I/O-System – General Product Information | | pdf 976.2 kB | Download |
| Overview on WAGO-I/O-SYSTEM 750 approvals | | pdf 223.5 kB | Download |

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CAD/CAE-Data

CAE data

| | | |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 753-434 | URL | Download |
| WSCAD Universe 753-434 | URL | Download |
| ZUKEN Portal 753-434 | URL | Download |

CAD data

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|----------------------|---------------------|--------------------------|
| 2D/3D Models 753-434 | URL | Download |
|----------------------|---------------------|--------------------------|

Environmental Product Compliance

Compliance Search

| | | |
|---|---------------------|--------------------------|
| Environmental Product Compliance 753-434 8-channel digital input; 5/12 VDC; 0.2 ms | URL | Download |
|---|---------------------|--------------------------|

Installation Notes

Product family

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

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