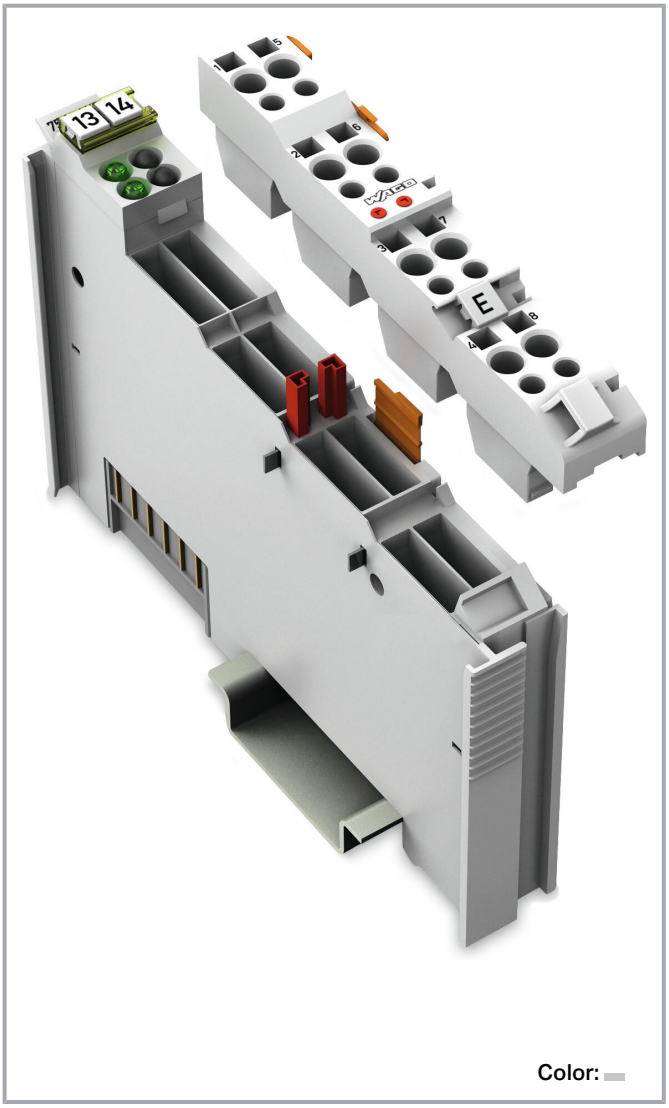
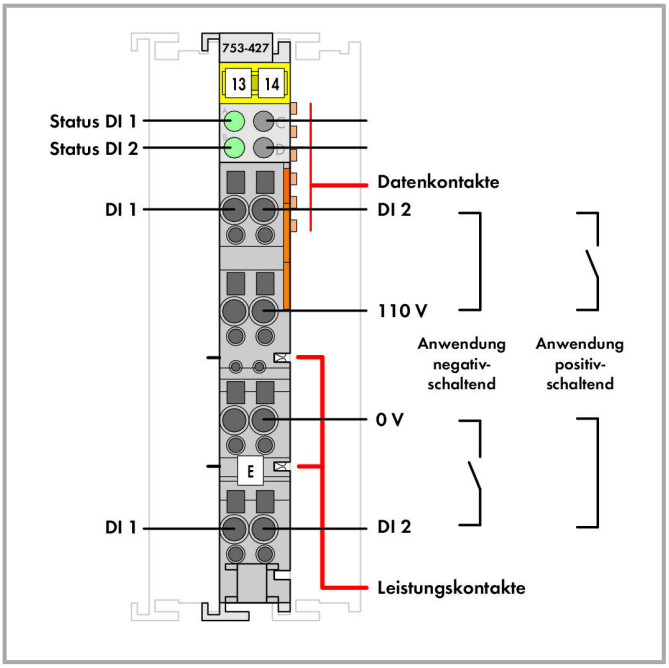
Data sheet | Item number: 753-427

2-channel digital input; 110 VDC

www.wago.com/753-427

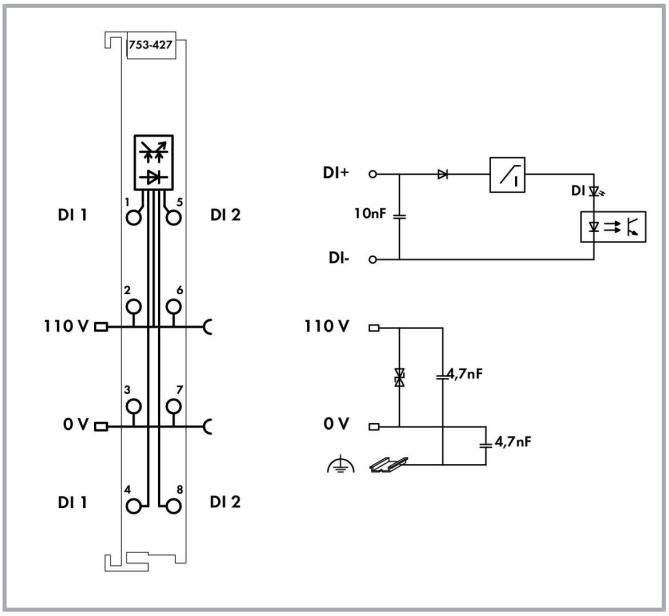


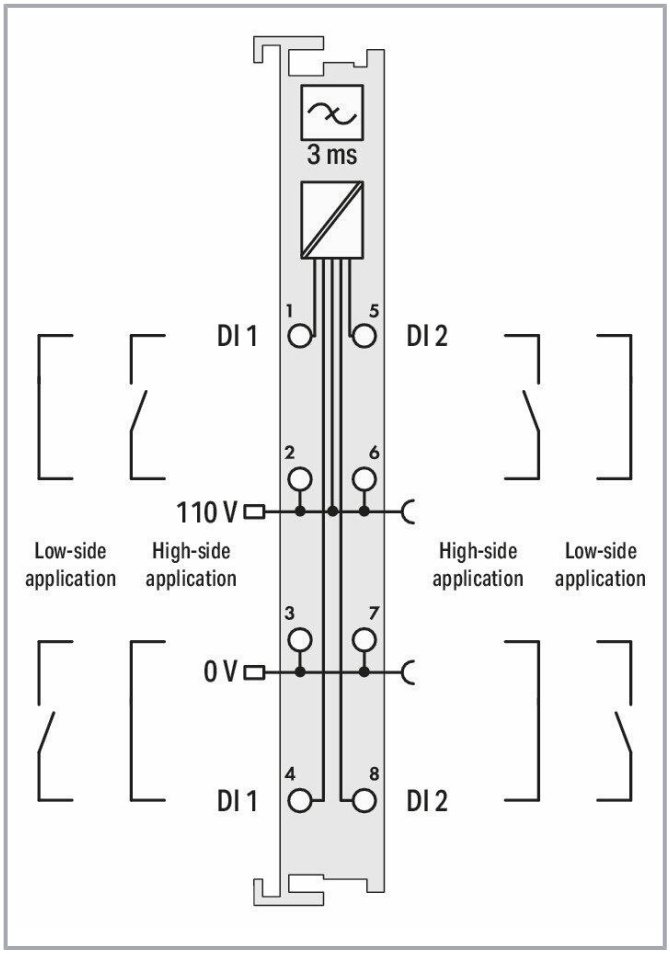


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WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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Item description

This digital input module receives control signals from field devices (e.g., sensors).

The module features two channels. Each channel can be used as a high-side or low-side switching input.

Field and system levels are electrically isolated.

Notice: An additional supply module must be added for 110 VDC supply!

Note:

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

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Data

Technical data

Number of digital inputs	2
Total number of channels (module)	2
Signal type	Voltage
Voltage signal type	110 VDC
Supply voltage (sensor)	110 VDC
Sensor connection	2 x (2-wire)
Input characteristic	High-side/low-side switching, configurable
Input filter (digital)	3 ms
Input current per channel for signal (1) (typ.)	2.5 mA
Voltage range for signal (0)	−14 … +50 VDC
Voltage range for signal (1)	70 … 143 VDC
Input data width (internal) (max.)	2 bits
Supply voltage (system)	5 VDC; via data contacts
Power consumption (5 V system supply)	2.5 mA
Supply voltage (field)	110 VDC (-20 … +25 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Isolation	1500 V (system/field)
Indicators	LED (A, B) green: Status DI 1, DI 2
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 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch

Physical data

Width	12 mm / 0.472 inch
Height	100 mm / 3.937 inch
Depth	69.8 mm / 2.748 inch

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Depth from upper edge of DIN-rail	62.6 mm / 2.465 inch

Mechanical data

Mounting type	DIN-35 rail
Wiring interface	Pluggable

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.773 MJ
Weight	41.8 g
Conformity marking	CE

Environmental requirements

Surrounding air temperature (operation)	0 … 55 °C
Surrounding air temperature (storage)	-40 … 85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 … 2000 m
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-3
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H_2S 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	DE

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GTIN	4045454540197
Customs tariff number	85389099990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079-0	TÜV 07 ATEX 554086 X en.
Ex nA IIC T4 Gc	**CCCEx** CQST/CNEx	CNCA-C23-01	2020312310000215
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02. B.00163/19
	TUEV Nord TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 09.0001 X
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-DIM750

UL-Approvals

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

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Required accessories

Pluggable connector

Male connector/plug



Item no.: 753-110
Plug
www.wago.com/753-110

Optional accessories

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

Carrier rail

Mounting accessories



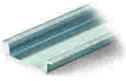
Item no.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored
www.wago.com/210-197



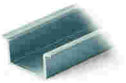
Item no.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored
www.wago.com/210-198



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



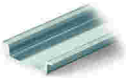
Item no.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored
www.wago.com/210-505



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

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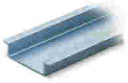
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Item no.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored
www.wago.com/210-114



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

Shield termination

Shield clamping saddle



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

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

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	**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

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

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Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
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	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
	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	www.wago.com/2009-145/000-005
	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
	**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
	**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
	**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
	**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
	**Item no.: 248-501** Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/248-501
	**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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32423 Minden
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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
	**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
	**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
	**Item no.: 750-100** Marker card; as a DIN A4 sheet; plain	www.wago.com/750-100

Group marker carrier

	**Item no.: 750-106** Group marker carrier	www.wago.com/750-106

Pluggable connector

Coding

	**Item no.: 753-150** 753 Series coding elements	www.wago.com/753-150

Downloads

Documentation

Manual

2-channel, 110VDC Configurable, high-side or low-side switching	V 1.0.4	pdf 252.9 kB	Download
System Manual WAGO I/O System 750 / 753 Decentralized Automation Technology	V 3.0.2 2021. 4. 27.	pdf 6.6 MB	Download
System Manual Series 750/753 Online HTML		URL	Download

Bid Text

753-427 X81 - Datei	2019. 2. 19.	xml 4.6 kB	Download

753-427

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doc - Datei	2017. 7. 13.	doc 28.7 kB	Download

Additional Information

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

System Description

750/753 Series I/O-System – General Product Information		pdf 1.7 MB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 753-427	URL	Download

CAE data

EPLAN Data Portal 753-427	URL	Download
WSCAD Universe 753-427	URL	Download
ZUKEN Portal 753-427	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 753-427 2-channel digital input; 110 VDC	URL	Download

Installation Notes

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Product family

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

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