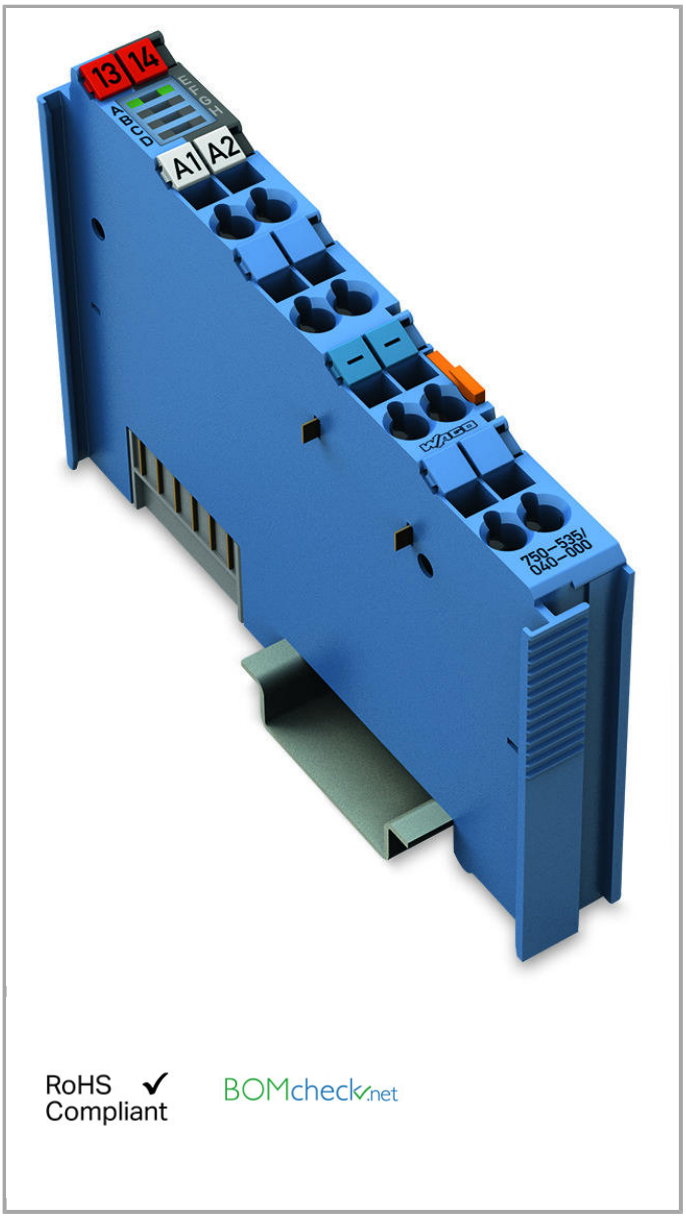
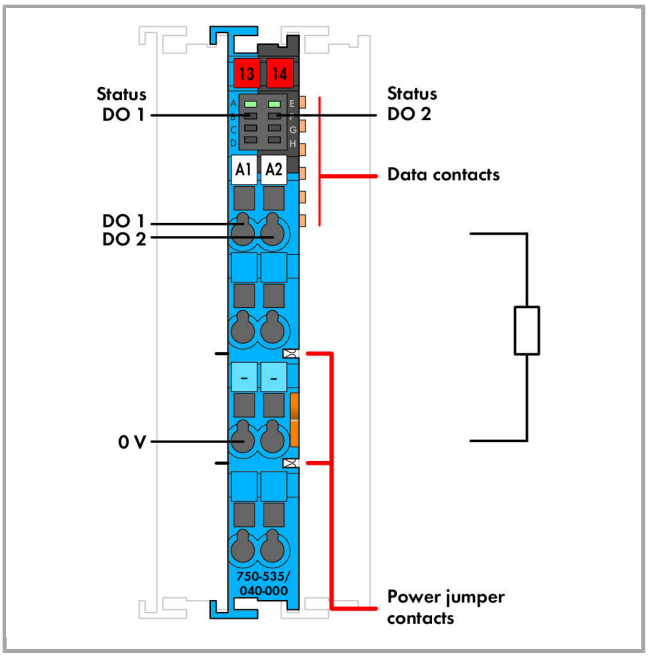
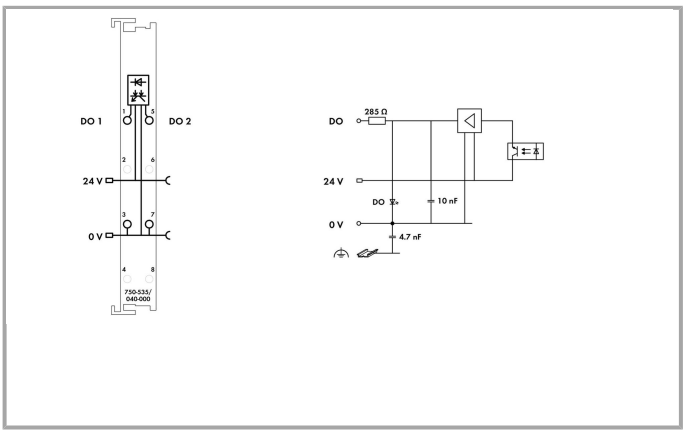
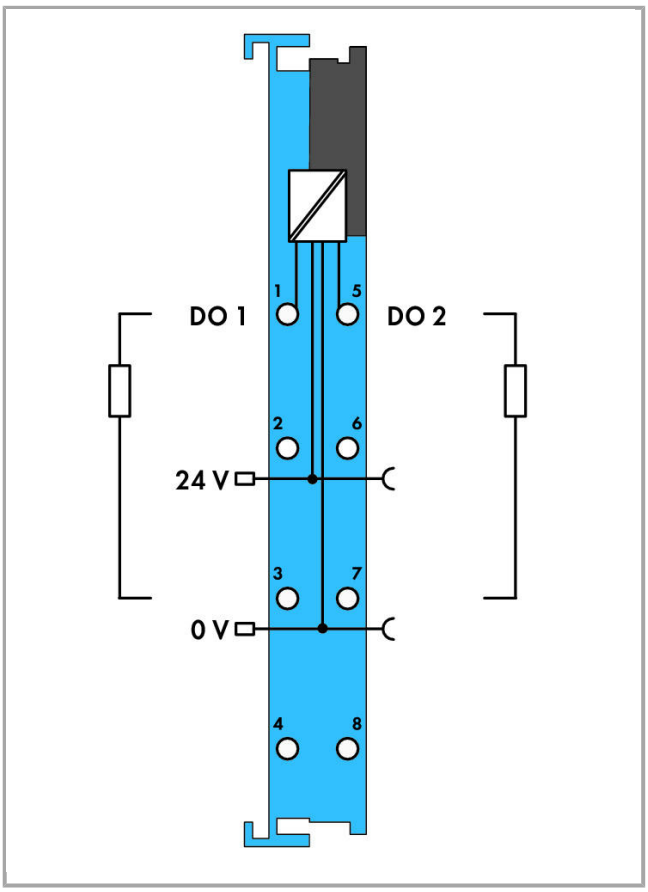

13
14
A1
A2
750-535/
040-000
RoHS
Compliant
BOMcheck.net


Status
DO 1
Status
DO 2
13
14
A1
A2
Data contacts
DO 1
DO 2
0 V
750-535/
040-000
Power jumper
contacts





Item description

This digital output module controls actuators operating in hazardous areas of Zone 0+1.

Intrinsically safe magnetic valves can be directly controlled.

The WAGO-I/O-SYSTEM 750 XTR must be installed either in Zone 2 or in a non-hazardous area.

All outputs are electronically short-circuit-protected.

Indicators:

- Green LED (output status)

Field and system levels are electrically isolated.

The device is ideal for operation in harsh environments thanks to:

- Extended temperature range
- Greater immunity to impulse voltages and electromagnetic interference
- Higher vibration and shock resistance

Note:

The digital output module must only be operated via 24 VDC Ex i XTR power supply (750-606/040-000)!

General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 XTR manuals!

Data

Technical Data

Number of digital outputs	2
Total number of channels (module)	2
Type of signal	Voltage
Actuator connection	2 x (2-conductor)
Output characteristic	high-side switching
Switching frequency max.	1 kHz
Type of load	resistive, inductive, lamps
Switching frequency max.	1000 Hz
Internal resistance (R_i)	285 Ω
Power consumption $P_{max.}$	2.1 W (with an output current of 40 mA)
Max output data width (internal)	2 Bit
Intrinsic safety Ex i	yes
System supply voltage	DC 5 V; via data contacts
Current consumption, system supply (5 V)	7 mA
System and sensor supply voltage	)
Field supply voltage	DC 24 V; via power jumper contacts (Ex i XTR power supply: U_O = max. 27.3 V)
Current consumption, field supply (module with no external load)	8.5 mA
Power loss P_V	1.1 W (at 40 mA output current)
Dielectric strength	510 VAC/775 VDC; per EN 60870-2-1
Rated surge voltage	1 kV; Rated surge voltage between intrinsically safe and non-intrinsically safe circuits: 1.5 kV (EN 60079-11)
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity of the power jumper contacts	1 A
Ex guideline	EN/IEC 60079-0, -7, -11
Electric circuit, safety-relevant data	U_o = 26,8 V; I_o = 99,91 mA; P_o = 669,43 mW; Kennlinie: Linear
Reactances Ex ia IIC	L_o = 1,1 mH; C_o = 0,092 µF
Reactances Ex ia IIB	L_o = 12 mH; C_o = 0,72 µF
Ex ia IIA reactances	L_o = 21 mH; C_o = 2.37 µF
Reactances Ex ia I	L_o = 30 mH; C_o = 3,85 µF
Reactances	(The above-listed ratings do not account for the coincidental occurrence of capacitances and inductances. For ratings taking the

	coincidental occurrence of capacitances and inductances into account, see manual)

Connection data

Connection technology: In-/Outputs	8 x CAGE CLAMP®
Connection type (1)	Inputs/Outputs
Solid conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Fine-stranded conductor	0.25 … 2.5 mm² / 24 … 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

Housing material	Polycarbonate, polyamide 6.6
Weight	47.5 g
Conformity marking	1

Environmental Requirements

Surrounding air (operating) temperature	-40 … 70 °C
Surrounding air (storage) temperature	-40 … 85 °C
Protection class	IP20
Degree of pollution (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 … 2000 m; with temperature derating: 2000 … 5000 m (0.5 K/100 m); max.: 5000 m
Mounting position	horizontal (standing/lying) or vertical
Relative air humidity (no condensation)	95 %
Relative humidity	Short-term condensation per Class 3K7/IEC EN 60721-3-3 and E DIN 40046-721-3 (except wind-driven precipitation, water and ice formation)
Vibration resistance	acc. to IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3
Shock resistance	per IEC 60068-2-27 (15g/11 ms/half-sine/1,000 shocks; 25g/6 ms/1,000 shocks), EN 61373
EMC immunity to interference	acc. to EN 61000-6-1, -2, EN 61131-2, marine applications, EN

	60255-26, EN 60870-2-1, EN 61850-3, IEC 61000-6-5, IEEE 1613, VDEW: 1994
EMC emission of interference	acc. to EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3
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

Country of origin	DE
GTIN	4055143649537
Customs Tariff No.	85371098990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV_17_ATEX_196484X
	IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 17.0005X
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Sec.1

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	-	17/20073 LR
	PRS Polski Rejestr Statków	-	TE/2215 /880590 /18

UL-Approvals

			Certificate

Logo	Approval	Additional Approval Text	name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec10

Compatible products

Marking accessories

	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-023 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	248-501
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501

	**Item no.: 248-501/000-006** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	**Item no.: 248-501/000-007** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	**Item no.: 248-501/000-012** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	**Item no.: 248-501/000-017** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	**Item no.: 248-501/000-023** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	**Item no.: 248-501/000-024** Mini-WSB marking card; as card; not stretchable; plain; snap-on type	248-501
	**Item no.: 750-103** Group marker carrier	750-103
	**Item no.: 750-107** Group marker carrier	750-107
shield connection		
	**Item no.: 790-108** Shield clamping saddle; 11 mm wide; diameter of compatible conductor	790-108
	**Item no.: 790-116** Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 … 16 mm	790-116
	**Item no.: 790-124** Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 … 24 mm	790-124
	**Item no.: 790-140** Shield clamping saddle; diameter of compatible conductor	790-140
	**Item no.: 790-208** Shield clamping saddle; 12.4 mm wide; 3 … 8 mm	790-208
	**Item no.: 790-216** Shield clamping saddle; 21.8 mm wide; 6 … 16 mm	790-216
	**Item no.: 790-220** Shield clamping saddle; 30 mm wide; 6 … 20 mm	790-220
power supply		
	**Item no.: 750-606/040-000** Power Supply; 24 VDC; Intrinsically safe; Extreme	750-606
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	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	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	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	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	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	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	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	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	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	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	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	210-508

Downloads

Documentation

Data sheet

750-535/040-000, 2DO 24 VDC Ex i XTR		pdf 202.2 kB	Download

Manual

2-channel, 24VDC, Ex i /XTR short-circuit protected, high-side switching	V 1.0.1	pdf 1.3 MB	Download

Bid Text

750-535/040-000		doc 35.3 kB	Download

Additional Information

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

System Description

Intrinsically Safe XTR Modules – General Product Information		pdf 401.8 kB	Download
System Manual /XTR Basic conditions and recommendations for higher operational safety	V 1.2.0	pdf 2.9 MB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download

CAD/CAE - Smart Data

CAD data

3D Download 750-535/040-000	URL	Download

Product family

750 XTR Series – I/O System

I/O-System 750 XTR: Dort automatisieren, wo jedes andere System an seine Grenzen stößt – und das zuverlässig und wirtschaftlich! XTR – dieses Kürzel im Systemnamen steht für extremen Schutz vor klimatischen Einflüssen, Schwingungen, Erschütterungen und Überspannungen.

Learn more about the product family.

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Subject to changes.