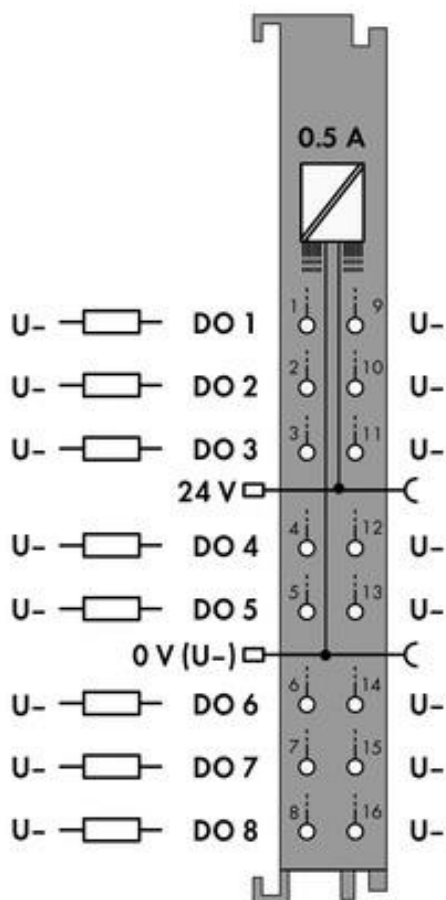




Item description

The 2-conductor digital output module provides eight channels in a width of just 12 mm (0.47 inch). It transmits binary control signals from the automation device to the connected actuators (e.g., magnetic valves, contactors, transmitters, relays or other electrical loads). The module features Push-in CAGE CLAMP[®] connections enabling solid conductors to be connected by simply pushing them in. A green LED indicates the switched status of each channel. Field and system levels are electrically isolated. An operating tool with a 2.5 mm blade (210-719) is required to open the Push-in CAGE CLAMP[®] connections. The device is ideal for operation in harsh environments:

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

Data

Technical Data

Number of digital outputs	8
Total number of channels (module)	8
Type of signal	Voltage
Type of signal voltage	DC 24 V
Actuator connection	8 x (2-conductor)
Output characteristic	high-side switching
Output current per channel	0.5 A
Output current	short-circuit-protected
Switching frequency max.	1 kHz
Type of load	resistive, inductive, lamps
Switching frequency (max.)	1000 Hz
Max. output data width (internal)	8 Bit
System supply voltage	DC 5 V; via data contacts
Current consumption, system supply	20 mA
Field supply voltage	DC 24 V (-25 ... 30 %); über Leistungskontakte; zur Weiterleitung getunnelt. Angegebene Werte für Umgebungstemperaturen: +15 ... +35 °C. Für -40 ... +55 °C: 24 V (-25 ... +20 %). Für +55 ... +70 °C: 24 V (-25 ... +10 %). Untergrenze in allen Temperaturbereichen: -27,5 % (inklusive 15 % Restwelligkeit).
Current consumption, field supply (module with no external load)	15 mA
Dielectric strength	AC 510 V/DC 775 V; gemäß EN 60870-2-1
Rated surge voltage	1 kV
Indicators	LED (1-8) green: Status DO 1 ... DO 8
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity of the power jumper contacts	10 A

Connection data

Number of connections: Inputs/outputs	16
Connection technology: inputs/outputs	16 x Push-in CAGE CLAMP®
Connection technology: inputs/outputs	Push-in CAGE CLAMP®
Connection type (1)	Inputs/Outputs
Solid conductor	0.25 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor	0.25 ... 1.5 mm² / 24 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 Inch



Geometrical Data

Width	12 mm / 0.472 Inch
Height	69 mm / 2.717 Inch
Height from upper-edge of DIN-35 rail	61.8 mm / 2.433 Inch
Depth	100 mm / 3.937 Inch

Mechanical data

Type of mounting	DIN-35 rail
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Material Data

Housing material	Polycarbonate, polyamide 6.6
Fire load	0.155 MJ
Weight	48 g
Conformity marking	CE



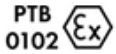
Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Degree of protection	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, EN 50155, EN 61373
Shock resistance	acc. to IEC 60068-2-27 (15g/11 ms/half-sine/1000 shocks; 25g/6 ms /1000 shocks), EN 50155, EN 61373
EMC immunity to interference	acc. to EN 61000-6-1, -2, EN 61131-2, marine applications, EN 50121-3-2, -4, -5, 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, EN 50121-3-2, EN 50121-4, -5
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

Packaging type	BOX
Country of origin	DE
GTIN	4050821460237
Customs Tariff No.	85371098990
Product Group	15 (Remote I/O)

Ex-Approvals

Logo	Approval	Certificate name
	ATEX TUEV Nord Cert GmbH	TUEV 17 ATEX 193969X
	IECEX TUEV Nord Cert GmbH	IECEX TUN 16.0046X
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	E198726 Sec.1

Ship Approvals

Logo	Approval	Certificate name
	ABS American Bureau of Shipping	16-HG1510784-PDA
	GL Germanischer Lloyd	95043-14HH
	LR Lloyds Register	17/20073 LR

UL-Approvals

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



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.

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Subject to changes.