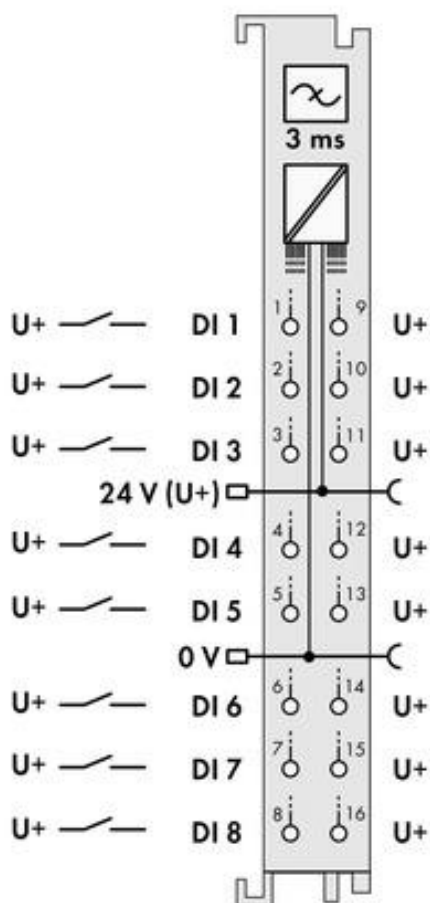




Item description

The 2-conductor digital input module provides eight channels in a width of just 12 mm (0.47 inch). It receives binary control signals from digital field devices (e.g., sensors, encoders, switches or proximity switches). The module features Push-in CAGE CLAMP[®] connections enabling solid conductors to be connected by simply pushing them in. Each input channel has a noise-rejection RC filter with 3.0 ms time constant. 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.



Data

Technical Data

Number of digital inputs	8
Total number of channels (module)	8
Type of signal	Voltage
Type of signal voltage	DC 24 V
Sensor supply voltage	24 V DC
Sensor connection	8 x (2-conductor)
Input characteristic	high-side switching
Input characteristic	Type 3
Input filter (digital)	3 ms
Input current per channel for signal (0) typ.	1.6 mA
Input current per channel for signal (1) min.	4.3 mA
Input current per channel for signal (1) max.	4.6 mA
Voltage range for signal (0)	-3 ... +5 VDC
Voltage range for signal (1)	11 ... 30 VDC
Max. input data width (internal)	8 Bit
System supply voltage	DC 5 V; via data contacts
Current consumption, system supply	6 mA
Field supply voltage	DC 24 V (-25 ... 30 %); über Leistungskontakte; zur Weiterleitung getunnelt
Current consumption, field supply (module with no external load)	2 mA
Isolation field – system	500 VAC (1 min)
Indicators	LED (1-8) green: Status DI 1 ... DI 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	0.08 ... 1.5 mm ² / 28 ... 16 AWG
Fine-stranded conductor	0.25 ... 1.5 mm ² / 22 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 Inch
Conductor type (1)	f-st
Conductor type (2)	s
Conductor type (1)	fine-stranded
Conductor type (2)	solid

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

Color	lichtgrau
Housing material	Polycarbonate, polyamide 6.6
Fire load	0.496 MJ
Weight	45.251 g
Conformity marking	CE

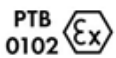
Environmental Requirements

Surrounding air (operating) temperature	0 ... 55 °C
Surrounding air (storage) temperature	-25 ... 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	any
Relative air humidity (no condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-3, 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

Packaging type	BOX
Country of origin	DE
GTIN	4050821085621
Customs Tariff No.	85389099990
Product Group	15 (Remote I/O)

Ex-Approvals

Logo	Approval	Certificate name
	ATEX TUEV Nord Cert GmbH	TÜV 07 ATEX 554086 X en.
	TUEV Nord TUEV Nord Cert GmbH	IECEx TUN 09.0001 X
	UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	E198726 Sec.1

Ship Approvals

Logo	Approval	Certificate name
	BV Bureau Veritas S.A.	30389/A1 BV
	DNV DNV Germany GmbH	A-14093
	GL Germanischer Lloyd	11 631 - 10 HH
	LR {Lloyds Register EMEA	02/20026 (E5)
	NK Nippon Kaiji Kyokai	TA17255M
	PRS Polski Rejestr Statkow	TE/1989/880590/13
	RINA RINA Germany GmbH	ELE134212XG

UL-Approvals

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



Product family

750/753 Series I/O-System

Show all products from the family.

Subject to changes.

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