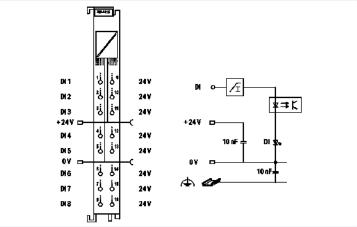
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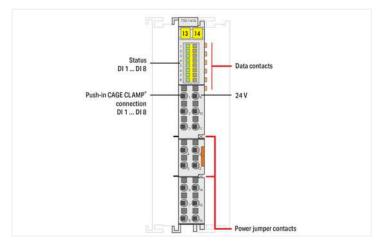
## 8-channel digital input; 24 VDC; 0.2 ms; 2-conductor connection



#### https://www.wago.com/750-1416







This digital input module is a 2-wire device featuring 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 sensors).

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 0.2 ms time constant.

A green LED indicates the signal state 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.

Technical data		
Number of digital inputs	8	
Total number of channels (module)	8	
Signal type	Digital	
Signal type (voltage)	24 VDC	
Supply voltage (sensor)	24 VDC	
Sensor connection	8 x (2-wire)	
Input characteristic	high-side switching Type 3	
Input filter (digital)	0.2 ms	
Input current per channel for signal (0) typ.	1.6 mA	
Input current per channel for signal (1) typ.	4.5 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	
Input data width (internal) max.	8 bits	

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Technical data	
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	6 mA
Supply voltage (field)	24 VDC (-25 $\dots$ +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact)
Current consumption, field supply (module with no external load)	2 mA
Isolation	500 V system/field
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 (power jumper contacts)	10 A

Connection data	
Connection technology: inputs/outputs	16 x Push-in CAGE CLAMP°
Connection type 1	Inputs/outputs
Solid conductor	0.08 1.5 mm² / 28 16 AWG
Fine-stranded conductor	0.25 1.5 mm² / 22 16 AWG
Strip length	89 mm / 0.31 0.35 inches

Physical data		
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		
Mounting type	DIN-35 rail	
Pluggable connector	fixed	

Material Data		
Housing material	Polycarbonate; polyamide 6.6	
Fire load	0.824 MJ	
Weight	45.2 g	
Conformity marking	CE	

Environmental requirements	
Ambient temperature (operation)	0 +55 ℃
Surrounding air temperature (storage)	-25 +85 °C
Protection type	IP20
Pollution degree (5)	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 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-3, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible $\rm H_2S$ contaminant concentration at a relative humidity $75\%$	10 ppm
Permissible SO <sub>2</sub> 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
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821085638
Customs tariff number	85389099990

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