

This digital input module features 16 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 3.0 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	16
Total number of channels (module)	16
Signal type	Digital
Signal type (voltage)	24 VDC
Sensor connection	16 x (1-wire)
Input characteristic	high-side switching
Input filter (digital)	3 ms
Input current per channel for signal (0) typ.	0.6 mA
Input current per channel for signal (1) typ.	2.3 mA
Input current per channel for signal (1) min.	2.1 mA
Input current per channel for signal (1) max.	2.4 mA
Voltage range for signal (0)	-3 ... +5 VDC
Voltage range for signal (1)	15 ... 30 VDC
Input data width (internal) max.	16 bits
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	25 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission (supply voltage field side only) via spring contact)
Isolation	500 V system/field
Indicators	LED (1-16) green: Status DI 1 ... DI 16
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® (inputs)
Connection type 1	Input
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 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

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.014 MJ
Weight	47 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal up, horizontal down, vertical top and vertical bottom
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 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

Product Group	15 (I/O System)
eCl@ss 10.0	27-24-26-04
eCl@ss 9.0	27-24-26-04
ETIM 9.0	EC001599
ETIM 8.0	EC001599
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454905590
Customs tariff number	85389099990

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(c)-I
SCIP notification number (Austria)	cbc4da15-2855-456e-b126-b3d1e41ded73
SCIP notification number (Belgium)	b2e6621d-45cb-4401-b769-cfd72228dc31
SCIP notification number (Bulgaria)	d6afedc8-cae1-44bb-becc-6c004301484f
SCIP notification number (Czech Republic)	7413ebf8-0a57-4ca7-b25f-da17e4d96a81
SCIP notification number (Denmark)	19f586a4-99ac-4888-a156-cc5324888c5f
SCIP notification number (Finland)	dccc2889-4b9e-4c99-9377-f629ac8cd83d
SCIP notification number (France)	e1b40844-f275-4dbd-a7d2-66e3bf0bee14
SCIP notification number (Germany)	cfaad3cd-7b39-4ba9-8975-b5e126d00a38
SCIP notification number (Hungary)	1b458e07-dd90-4bc3-8d4f-80b8cc35f3cc
SCIP notification number (Italy)	fafda69e-2119-41a0-a0d1-1e72dd7b9694
SCIP notification number (Netherlands)	fb251372-8d08-459e-be3f-6f221cdde730
SCIP notification number (Poland)	7a5ee9a2-4e27-466e-a8ac-4a095c75f0f9
SCIP notification number (Romania)	f214c9e6-517a-4acc-8aae-acd6010dddc1
SCIP notification number (Sweden)	4e0950eb-efed-403d-aa8b-3df8f07043a2

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

Current addresses can be found at: www.wago.com