

Data Sheet | Item Number: 750-432

4-channel digital input; 24 VDC; 3 ms; 2-conductor connection

<https://www.wago.com/750-432>



This digital input module receives control signals from field devices (e.g., sensors). The module has four input channels and four 24 V outputs, providing a direct connection to four 2-wire sensors. Each input module has a noise-rejection filter. Field and system levels are electrically isolated.

Technical data

Number of digital inputs	4
Total number of channels (module)	4
Signal type	Digital
Signal type (voltage)	24 VDC
Sensor supply	DC 24 V
Sensor connection	4 x (2-wire)
Input characteristic	high-side switching
Input filter (digital)	3 ms
Input current per channel for signal (1) typ.	4.5 mA
Voltage range for signal (0)	-3 ... +5 VDC
Voltage range for signal (1)	15 ... 30 VDC
Input data width (internal) max.	4 bits
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	5.5 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 (A-D) green: Status DI 1 ... DI 4
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	8 x CAGE CLAMP® (inputs)
Connection type 1	Input
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 14 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	69.8 mm / 2.748 inches
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inches

Mechanical data

Mounting type	DIN-35 rail
Pluggable connector	fixed

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.194 MJ
Weight	47.1 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	4045454476151
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	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	fb2e8e34-0478-4c13-9e10-795f28421da4
SCIP notification number (Belgium)	8ed0a92e-e32a-4725-a354-18b84502bfd7
SCIP notification number (Bulgaria)	c03c6189-dda6-4704-9fec-a6fffa4ccbac
SCIP notification number (Czech Republic)	0c2f8684-5abe-4ec2-8224-63c75be681d2

Environmental Product Compliance

SCIP notification number (Denmark)	cabb3774-cc32-4af9-9856-9f89ea6c5670
SCIP notification number (Finland)	ded14e1c-340a-44d3-8c45-4ffc8525ffc1
SCIP notification number (France)	cb1a78de-44dd-4034-8550-8b5275b4ac2a
SCIP notification number (Germany)	df5184fe-1b0e-4e13-b2b9-68a1fb0fee02
SCIP notification number (Hungary)	fd7744ca-11c9-4579-841e-02c8563e5365
SCIP notification number (Italy)	36ea9c09-f3c7-4d92-8644-09491fd362cd
SCIP notification number (Netherlands)	91a4a8b5-7d58-4a36-90e6-fb2acd731896
SCIP notification number (Poland)	e2ff89d3-31a3-4160-ba86-63b61dca0968
SCIP notification number (Romania)	dac4cf17-3193-4117-b6a5-4d7e94832764
SCIP notification number (Sweden)	8d670734-4c65-478e-a4b7-b4ec4c536535