

CATAN DOR6 UI8 - Relay module

1371364

<https://www.phoenixcontact.com/us/products/1371364>



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Extension module for Catan controller. 8 universal inputs and 6 digital outputs with bistable relays for 230 V AC/16 A. Local override operation via Catan Control Panel. Connection to the Catan controller via Single Pair Ethernet.

Product description

The CATAN DOR6 UI8 extension module is housed in a compact REG housing with an overall width of just 6 HP. It extends a Catan controller by eight additional universal inputs and six relay outputs for 230 V AC/16 A. The universal inputs are suitable for temperature sensors, 0 V ... 10 V interfaces or as meters, among other things. The bistable relays have contacts as N/C contacts and N/O contacts. They are designed for very high inrush currents. The device is Cradle to Cradle Certified® at bronze level.

Your advantages

- Space and cost savings thanks to highly flexible I/O configurability
- High-performance extension bus also enables distributed installation
- Startup and maintenance with plug-in display for local operation
- Power-saving bistable relays for high inrush currents
- Digital twin as the basis for smart buildings



Commercial data

Item number

1371364

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1371364

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Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR18
Product key	DRHAFA
GTIN	4063151729950
Weight per piece (including packing)	292 g
Weight per piece (excluding packing)	270 g
Customs tariff number	85371098
Country of origin	DE

CATAN DOR6 UI8 - Relay module



1371364

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Technical data

Dimensions

Dimensions without display connected

Width	89.7 mm
Height	60.7 mm
Length	107.6 mm
Horizontal pitch	6 Div. (DIN rail housing in accordance with DIN 43871)

Dimensions with display connected

Width	89.7 mm
Height	68 mm
Length	107.6 mm

Notes

Note on application

Note on application	Only for industrial use
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Material specifications

Color (Lower housing part)	gray (RAL 7042)
Color (Upper housing part)	light gray (RAL 7035)
Material	Polycarbonate (Housing)
Flammability rating according to UL 94	V0

Interfaces

Extension bus (link bus)

Number of interfaces	2 (for extension modules)
Connection method	Push-in connection
Note on the connection method	Single Pair Ethernet (SPE) 10BASE-T1L, shielded
Transmission speed	10 Mbps
Transmission length	max. 350 m (between two devices)

Connection for Catan Control Panel

Number of interfaces	1
Connection method	USB 2.0 full speed, socket type C
Transmission speed	max. 12 Mbps

Input data

Universal: Universal input (UI)

Input name	Universal inputs (UI)
Description of the input	Single-ended
Number of inputs	8
Connection method	Push-in connection

CATAN DOR6 UI8 - Relay module

1371364

<https://www.phoenixcontact.com/us/products/1371364>



Connection technology	2-conductor (shielded, twisted pair)
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Analog: Universal input

Input name	Analog current inputs
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Tolerance, absolute (mA)	max. 0.05 mA (The measurement requires an external parallel resistor of 68 Ω.)
Resolution (current)	0.01 mA
Protective circuit	Surge protection

Analog: Universal input

Input name	Analog voltage inputs
Voltage input signal	0 V ... 10 V
Input resistance of voltage input	> 5 MΩ
Tolerance, absolute (V)	max. 3 mV
Resolution (voltage)	1 mV
Protective circuit	Surge protection

Analog: Universal input

Input name	Analog temperature inputs
Usable sensor type (RTD)	Pt 1000
Temperature range	-100 °C ... 500 °C
Tolerance, absolute	max. 0.5 K
Temperature resolution	0.1 K

Analog: Universal input

Input name	Analog temperature inputs
Usable sensor type (RTD)	Ni 1000
	LG-Ni 1000
Temperature range	-50 °C ... 250 °C
Tolerance, absolute	max. 0.5 K
Temperature resolution	0.1 K

Analog: Universal input

Input name	Analog temperature inputs
Usable sensor type (TC)	NTC 10k
	NTC 20k
	NTC 10k Pre
Temperature range	-30 °C ... 150 °C (NTC 10k)
	-15 °C ... 150 °C (NTC 20k)
Tolerance, absolute	max. 0.5 K (Cable length 30 m, maximum)
Temperature resolution	0.1 K

Analog: Universal input

Input name	Analog resistance inputs
Tolerance, relative	max. 0.1 % (for resistances >200 Ω)

CATAN DOR6 UI8 - Relay module



1371364

<https://www.phoenixcontact.com/us/products/1371364>

Resistance range	0 Ω ... 10 k Ω
Resolution (resistance)	0.01 Ω

Analog: Universal input

Input name	Analog resistance inputs
Tolerance, relative	max. 1 % (for resistances >200 Ω)
Resistance range	0 Ω ... 180 k Ω
Resolution (resistance)	0.1 Ω

Digital: Universal input

Input name	Digital inputs
Description of the input	EN 61131-2 type 2 and 3
Input voltage range "0" signal	-3 V DC ... 5 V DC (An open input always provides a 0 signal.)
Input voltage range "1" signal	11 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC

Digital: Universal input

Input name	Floating contacts
Input information	Connect the contact to ground.
Description of the input	Open/closed contact
Input current	2 mA
Input resistance range ("0" signal)	> 27 k Ω
Input resistance range ("1" signal)	< 1 k Ω

Counter: Universal input

Input name	Counter inputs
Input frequency	max. 20 Hz (Signal is debounced)
Resolution	1 Impulse

Output data

Relay

Number of outputs	6 (Changeover contact)
Connection method	Push-in connection
Switching voltage	max. 250 V
Switching power	max. 4000 VA
Limiting continuous current	16 A (Resistive load)
Mechanical service life	10 ⁶ cycles

Product properties

Product type	I/O component
Product family	Catan
Installation location	indoor use
Installation location	Subdistribution
	Control cabinet
Mounting position	horizontal

CATAN DOR6 UI8 - Relay module



1371364

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Alternative mounting positions are possible, but can lead to a reduction in thermal performance.

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Supply:

Designation	Supply
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	max. 250 mA
	100 mA (without external load)
	150 mA (with display)

Electrical isolation/isolation of the voltage ranges

Test voltage: Extension bus/communications	500 V AC, 50 Hz, 1 min
Test voltage: Logic/functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Relay contact / logic	4 kV AC, 50 Hz, 1 min
Test voltage: Relay contact / functional ground	4 kV AC, 50 Hz, 1 min
Test voltage: Relay contact/relay contact (open contact)	1 kV, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Connections 1 ... 19 (relay)
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Connections 1 ... 19 (relay)

Connection method	Push-in connection
Conductor cross-section, rigid	0.2 mm ² ... 4 mm ² (Conductor connection with open terminal point)
	0.5 mm ² ... 4 mm ² (Push-in connection)
Conductor cross-section, flexible	0.2 mm ² ... 4 mm ²
Conductor cross-section AWG	24 ... 12
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm ² ... 2.5 mm ²
	0.25 mm ² ... 2.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
Nominal cross section	4 mm ²
Stripping length	10 mm

Connections 31 ... 62 (power supply, link bus, universal inputs)

Connection method	Push-in connection
Conductor cross-section, rigid	0.2 mm ² ... 1.5 mm ² (Conductor connection with open terminal point)
	0.34 mm ² ... 1.5 mm ² (Push-in connection)

CATAN DOR6 UI8 - Relay module



1371364

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Conductor cross-section, flexible	0.5 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 16
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm ² ... 1.5 mm ²
	0.25 mm ² ... 1.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 1.5 mm ²
Nominal cross section	1.5 mm ²
Stripping length	10 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-5 °C ... 50 °C (up to 3000 m above mean sea level)
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above mean sea level)
Air pressure (storage/transport)	58 kPa ... 106 kPa (up to 4500 m above mean sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	20g (contact interruption) / 5g (contact closure)
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g

Mounting

Mounting type	DIN rail mounting (in accordance with DIN EN 60715)
Mounting position	horizontal

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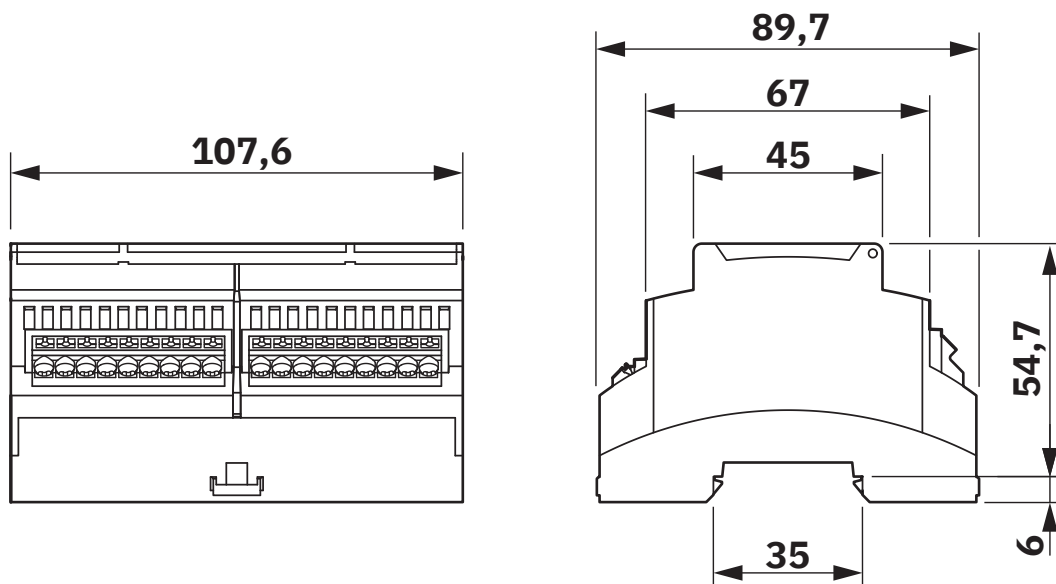
1371364

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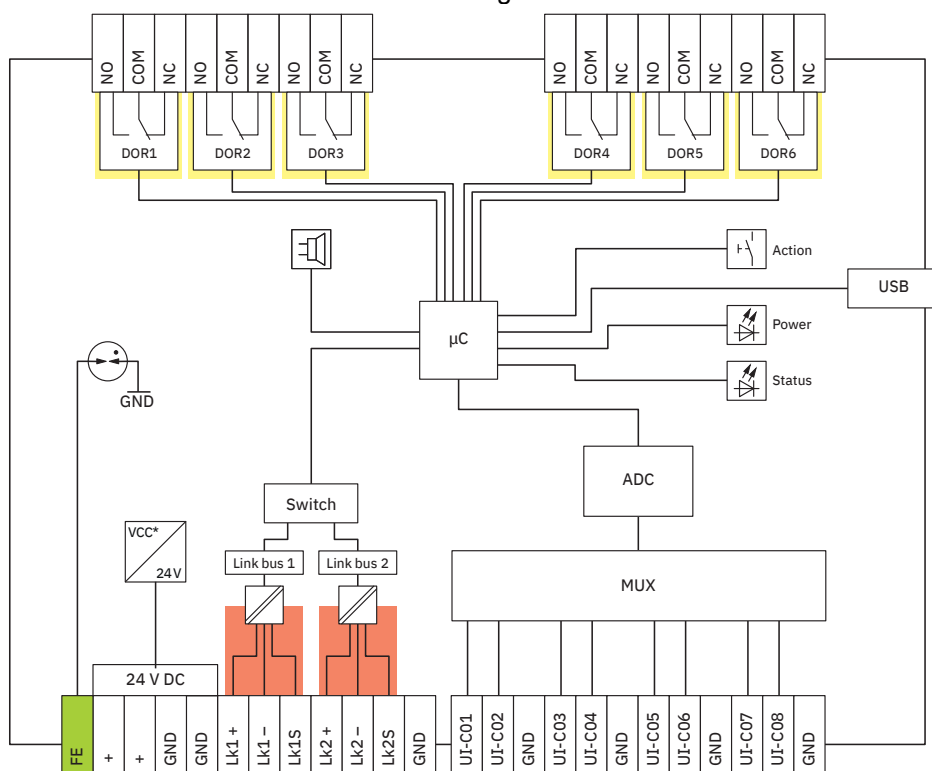
Drawings

Dimensional drawing



Dimensions

Block diagram



Internal wiring of the terminal points

CATAN DOR6 UI8 - Relay module



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Approvals

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cULus Listed

Approval ID: E238705

CATAN DOR6 UI8 - Relay module



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Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

ETIM

ETIM 10.0	EC001599
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CATAN DOR6 UI8 - Relay module



1371364

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead titanium zirconium oxide(CAS: 12626-81-2)
	Lead(CAS: 7439-92-1)

EF3.1 Climate Change

CO2e kg	23.15 kg CO2e
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