2985864

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Safety-related decentralized relay output module, IP20 degree of protection, for SafetyBridge, INTERBUS-Safety, and PROFIsafe systems. The module has four safe relay outputs, each with two contacts.

Product description

The safety module is an output module from the Inline product range designed for use at any point within a SafetyBridge, INTERBUS-Safety or PROFIsafe system. The transmission speed can be set to 500 kBaud or 2 Mbaud on the safety module using a switch. One transmission speed must be used consistently within a station. The module has four safe relay outputs, each with two relay contacts.

Your advantages

- SIL 3 according to IEC/EN 61508
- · SIL 3 in accordance with EN IEC 62061
- PL e in accordance with EN ISO 13849-1

Commercial data

Item number	2985864
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA432
Product key	DNA432
Catalog page	Page 268 (C-6-2019)
GTIN	4046356131599
Weight per piece (including packing)	461.5 g
Weight per piece (excluding packing)	386 g
Customs tariff number	85389091
Country of origin	DE



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Technical data

Dimensions

Width	73.2 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Note on application	
Note on application	Only for industrial use

Interfaces

Inline local bus		
No. of channels	2	
Connection method	Inline data jumper	
Transmission speed	500 kbps / 2 Mbps (can be switched)	

System properties

Module

ID code (dec.)	167
ID code (hex)	A7
Length code (hex)	04
Length code (dec)	04
Process data channel	8 Byte
Input address area	8 Byte ((Operating mode: SafetyBridge))
Output address area	8 Byte ((Operating mode: SafetyBridge))
Register length	8 Byte
Required parameter data	1 Byte ((Operating mode: SafetyBridge))
Required configuration data	5 Byte ((Operating mode: SafetyBridge))

Output data

Relay		
Number of outputs	4 (Safety relays with 2 floating contacts each)	
Connection method	Spring-cage connection	
Contact switching type	N/O contact	

Product properties

Product type	I/O component
Product family	Inline
Application	Functional safety
	PROFIsafe



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Туре	modular
ctrical properties	
Maximum power dissipation for nominal condition	8.7 W
Transmission medium	Copper
Potentials: Communications power (U _L)	
Supply voltage	7.5 V DC (see safety data)
Current draw	max. 360 mA
Potentials: Main circuit supply (U _M)	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
Current draw	max. 0.03 A
	typ. 30 mA (all outputs set including actuator current)
Potentials: Segment circuit supply (U _S)	
Supply voltage	24 V
Supply: Module electronics	
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC 30 V DC
Electrical isolation/isolation of the voltage ranges	
Test voltage: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V supply (bus logics)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (U _M , U _S), GND, clock outputs/7.5 V supply (bus logic), relay outputs	500 V AC, 50 Hz, 1 min
Test voltage: COMBICON X3 relay outputs/COMBICON X4 relay outputs, Inline connector relay outputs,7.5 V supply (bus logic), 24 V supply (U_M , U_S), GND, clock outputs, FE	2500 V AC, 50 Hz, 1 min
Test voltage: COMBICON X4 relay outputs/COMBICON X3 relay outputs, Inline connector relay outputs,7.5 V supply (bus logic),	2500 V AC, 50 Hz, 1 min

Connection data

 Connection technology
 Inline connector

 pluggable
 yes

 Conductor connection
 Spring-cage connection

 Conductor cross section rigid
 0.2 mm² ... 1.5 mm²

 Conductor cross section flexible
 0.2 mm² ... 1.5 mm²

 Conductor cross section AWG
 24 ... 16

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Inline connector		
Connection method	Spring-cage connection	
Conductor cross section, rigid	0.2 mm ² 1.5 mm ²	
Conductor cross section, flexible	0.2 mm ² 1.5 mm ²	
Conductor cross section AWG	24 16	

Environmental and real-life conditions

Ambient conditions		
Ambient temperature (operation)	-25 °C 55 °C	
Degree of protection	IP20	
Air pressure (operation)	80 kPa 108 kPa (up to 2000 m above sea level)	
Air pressure (storage/transport)	66 kPa 108 kPa (up to 3500 m above sea level)	
Ambient temperature (storage/transport)	-25 °C 70 °C	
Permissible humidity (operation)	10 % 85 % (Take suitable measures against increased air humidity within the permitted temperature range.)	
Permissible humidity (storage/transport)	10 % 85 % (Take suitable measures against increased air humidity within the permitted temperature range.)	
tandards and regulations		
Protection class	I (IEC 61140, EN 61140, VDE 0140-1)	
Mounting		
Mounting type	DIN rail mounting	

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Drawings



Example connection of a contactor



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2985864



Functional Safety Approval ID: 968/FSP 2449.00/22

CULus Listed
 Approval ID: E140324

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Classifications

ECLASS

	ECLASS-13.0	27242604		
ETIM				
	ETIM 9.0	EC001599		
UNSPSC				
	UNSPSC 21.0	32151600		



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Environmental product compliance

EU RoHS

Yes
7(a), 7(c)-l
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.
Lead(CAS: 7439-92-1)
5bafe3f4-7fc1-4e11-acb1-6ed436545098

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