

https://www.phoenixcontact.com/us/products/2742586



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Inline, Bus coupler, INTERBUS, Inline shield connector, Digital inputs: 16, 24 V DC, connection technology: 3-conductor, Digital outputs: 16, 24 V DC, 500 mA, connection technology: 3-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The complete Inline station consists of an INTERBUS bus terminal, a digital output terminal with 16 outputs, and a digital input terminal with 16 inputs. This package contains all the necessary Inline connector to connect the bus, the supply and the I/Os.

The Inline terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the ZBFM -6... Zack strip for labeling the terminal points.

Your advantages

- 16 digital inputs
- 16 digital outputs
- · Connection of sensors in 2- and 3-conductor technology
- · Connection of actuators in 2- and 3-conductor technology
- · Maximum permissible load current per sensor: 250 mA
- · Nominal current per output: 500 mA
- · Diagnostic and status indicators

Commercial data

Item number	2742586
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI111
Catalog page	Page 245 (AX-2009)
GTIN	4017918603984
Weight per piece (including packing)	710.9 g
Weight per piece (excluding packing)	394 g
Customs tariff number	85389091
Country of origin	DE



https://www.phoenixcontact.com/us/products/2742586



Technical data

Dimensions

Dimensional drawing	110,5 119,6 0 0 0 0 0 0 0
Width	146.4 mm
Height	140.5 mm
Depth	71.5 mm

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Interfaces

INTERBUS

Number of interfaces	2
Connection method	Inline shield connector
Transmission speed	500 kbps
Inline local bus	

Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

System limits

Number of local bus devices that can be connected	63 (observe total permissible current consumption)
Number of devices with parameter channel	16
Number of supported branch terminals with remote bus branch	max. 15
Modulo	

Module

ID code (hex)	4
Register length	32 bit

Input data

Digital

Digital .		
	Input name	Digital inputs



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Description of the input	EN 61131-2 type 1
Number of inputs	16
Connection method	Spring-cage connection
Connection technology	3-conductor
Input voltage	24 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Nominal input voltage U _{IN}	24 V DC
Typical input current per channel	typ. 3 mA
Protective circuit	Polarity reversal; Suppressor diode

Output data

Digital

2.9.14.	
Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Short-circuit and overload protection; Free running circuit
Output voltage	24 V DC -1 V (At nominal current)
Maximum output current per module	max. 8 A
Nominal output voltage	24 V DC
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Output name	Digital outputs
Connection method	Spring-cage connection
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Short-circuit and overload protection; Free running circuit
Output voltage	24 V DC -1 V (At nominal current)
Maximum output current per module	max. 8 A
Nominal output voltage	24 V DC
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W

Product properties

Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
No. of channels	32

Electrical properties

Maximum power dissipation for nominal condition	30 W
maximam power alcolpation for normal container	



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Protective circuit	Reverse polarity protection
Potentials: Bus coupler supply $\rm U_{BK}$; Communications power $\rm U_L$ (7.5 V) oupler supply.	and the analog supply ${\rm U}_{\rm ANA}$ (24 V) are generated from the bus
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 1.25 A (with max. number of connected I/O terminal blocks (24 V DC supply))
	typ. 100 mA (without connected Inline I/O terminals)
Potentials: Communications power (U _L)	
Supply voltage	7.5 V DC ±5 %
otentials: Supply of analog modules (U _{ANA})	
Supply voltage	24 V DC
Supply voltage Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
	to the control of the
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)
otentials: Segment circuit supply (U _S)	
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Electrical isolation/isolation of the voltage ranges	
Test voltage: 5 V supply, incoming remote bus / 5 V supply outgoing remote bus	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply incoming remote bus / 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply, incoming remote bus / 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply incoming remote bus / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply outgoing remote bus / communications power (U_{BK} , U_L , U_{ANA})	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply outgoing remote bus / I/O ($\mathrm{U_M}$, $\mathrm{U_S}$)	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply outgoing remote bus / functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 7.5 V logics supply, 24 V analog supply, 24 V bus	500 V AC, 50 Hz, 1 min.
terminal module supply / 24 V main supply, 24 V segment supply	

Connection data

Connection	techno	logy
Connection	techno	logy

Connection name	Inline connector
Conductor connection	



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Connection method	Spring-cage connection	
Conductor cross section rigid	0.08 mm² 1.5 mm²	
Conductor cross section flexible	0.08 mm² 1.5 mm²	
Conductor cross section AWG	28 16	
Stripping length	8 mm	
Inline connector		
Connection method	Spring-cage connection	
Connection method Conductor cross section, rigid	Spring-cage connection 0.08 mm² 1.5 mm²	
Conductor cross section, rigid	0.08 mm ² 1.5 mm ²	

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Permissible humidity (operation)	95 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)

Mounting

Mounting type	DIN rail mounting



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Classifications

ECLASS

	ECLASS-11.0	27242608
	ECLASS-12.0	27242608
	ECLASS-13.0	27242608
ETIM		
'	IIVI	
	ETIM 9.0	EC001604
UNSPSC		
	UNSPSC 21.0	32151600



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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