

IB ST 24 AO 4/EF - I/O module

2700839

<https://www.phoenixcontact.com/us/products/2700839>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



INTERBUS-ST analog output module, 4 outputs, 0 - 10 V, ± 10 V, 0 - 20 mA, 4 - 20 mA, consisting of: terminal part with screw connection and module electronics

Commercial data

Item number	2700839
Packing unit	1 pc
Sales key	DR03
Product key	DRI342
GTIN	4046356660501
Weight per piece (including packing)	585 g
Weight per piece (excluding packing)	585 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Dimensions

Width	118 mm
Height	116 mm
Depth	117 mm

Interfaces

ST local bus

No. of channels	2
Connection method	ST local bus connector
Transmission speed	500 kbps
Transmission physics	Copper

System properties

Programming data

Length code (hex)	4
ID code (dec.)	125
Length code (dec)	4
Input address area	0 Byte
Output address area	8 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	8 Byte

Output data

Analog:

Output name	Analog outputs
Connection technology	2, 3-conductor
Number of outputs	4 (Voltage or current)
D/A conversion time	max. 1 ms (incl. slew rate)
D/A converter resolution	12 bit
Protective circuit	Transient protection; Suppressor diode
Representation of output values	16 bit two's complement
Current output signal	0 mA ... 20 mA (SF and SF4 mode) 4 mA ... 20 mA (Mode SF4)
Load/output load current output	to 500 Ω
Voltage output signal	-10 V ... 10 V (Mode BP) 0 V ... 10 V (SF and SF4 mode)
Load/output load voltage output	> 2 k Ω

Product properties

Product type	I/O component
--------------	---------------

IB ST 24 AO 4/EF - I/O module



2700839

<https://www.phoenixcontact.com/us/products/2700839>

Type	modular INTERBUS Smart Terminal
Operating mode	Process data mode with 4 words
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler F1 fuse failure I/O error message sent to the bus coupler I/O supply failure I/O error message sent to the bus coupler

Electrical properties

Supply: Module electronics

Connection method	ST local bus connector
Designation	Communications power
Supply voltage	9 V DC (from the ST local bus)
Current consumption	typ. 54 mA max. 80 mA
Power consumption	typ. 0.5 W

Supply: Periphery supply voltage

Designation	U_S
Supply voltage	24 V DC
Supply voltage range	19.5 V DC ... 30.2 V DC (including all tolerances, including ripple)
Current consumption	typ. 48 mA (Mode BP) typ. 130 mA (SF and SF4 mode)

Electrical isolation/isolation of the voltage ranges

Test voltage: Bus/Outputs	500 V AC, 50 Hz, 1 min
Test voltage: Supply voltage/Outputs	500 V AC, 50 Hz, 1 min
Test voltage: Supply voltage/Ground conductor	500 V AC, 50 Hz, 1 min
Test voltage: I/O voltage/Ground conductor	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Terminal block
-----------------	----------------

Terminal block

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
---------------------------------	------------------

IB ST 24 AO 4/EF - I/O module



2700839

<https://www.phoenixcontact.com/us/products/2700839>

Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
------------------	---------------------------------------

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

IB ST 24 AO 4/EF - I/O module



2700839

<https://www.phoenixcontact.com/us/products/2700839>

Classifications

ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

UNSPSC

UNSPSC 21.0	32151600
-------------	----------

2700839

<https://www.phoenixcontact.com/us/products/2700839>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
-------------------------------------	----------------------

EF3.1 Climate Change

CO2e kg	11.88 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com