



**Automatización Eléctrica**  
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Analog input and output modules

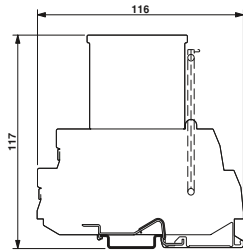
The analog I/O modules offer different functions depending on the module type.

Features:

- 2, 4 or 8 channels
- Standard signal types (voltage and current)
- Temperature measurement modules

Notes:

1) EMC: Class A product, see page 553



2/4 inputs



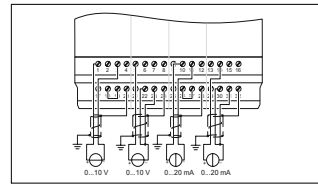
4/8 inputs



4 RTD inputs



4/8 outputs

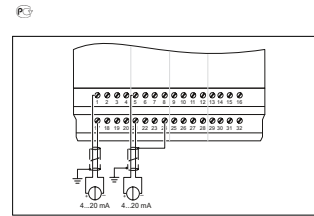


Technical data

	IB ST 24 BAI 2(SF <sup>1</sup> )	IB ST 24 AI 4(SF <sup>1</sup> )
Interface	ST local bus	
Name	ST local bus plug	
Connection method	Screw connection	
Power supply for module electronics	± 24 V DC 5% (ripple)	
Supply voltage	20 V DC ... 30 V DC	
Supply voltage range	20 V DC ... 30 V DC	
Analog inputs		
Connection technology	2, 3-wire	2, 3, 4-wire
Number of inputs	2	4
Description of the inputs	-	-
Analog outputs		
Connection technology	-	-
Number of outputs	-	-
General data		
Connection method	Screw connection	
Connection data solid/stranded/AWG	0.2 ... 2.5 mm <sup>2</sup> / 0.2 ... 2.5 mm <sup>2</sup> / 24 - 12	
Weight	370 g	600 g
Width	81 mm	118 mm

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
<b>INTERBUS-ST analog input module</b> , consisting of: terminal part with screw connection and module electronics			
- Two inputs, 0 - 20 mA, 4 - 20 mA, 0 - 10 V	IB ST 24 BAI 2(SF <sup>1</sup> )	2722771	1
- Four inputs, 0 - 20 mA, 0 - 10 V	IB ST 24 AI 4(SF <sup>1</sup> )	2754309	1
- Four inputs, 4 - 20 mA, 0 - 10 V	IB ST 24 AI 4(SF4 <sup>1</sup> )	2750565	1
- Four inputs, 4 - 20 mA, ±10 V	IB ST 24 AI 4(BP <sup>1</sup> )	2751564	1
- Four inputs, 0 - 20 mA, 4 - 20 mA, 0 - 10 V			
- Eight inputs, 0 - 5 V, 0 - 10 V, 0 - 25 V, 0 - 50 V			
- Eight inputs, 0 - 20 mA, 4 - 20 mA, 0 - 40 mA, 0 - 60 mA			
<b>INTERBUS-ST analog input module</b> for temperature and resistance measurement, consisting of: terminal part with screw connection and module electronics			
- Four inputs, RTD			
<b>INTERBUS-ST analog output module</b> , consisting of: terminal part with screw connection and module electronics			
- Four outputs, 0 - 20 mA, 0 - 10 V			
- Four outputs, 4 - 20 mA, 0 - 10 V			
- Four outputs, 0 - 10 V			
- Eight outputs, 0 - 10 V, ±10 V, ±12 V			

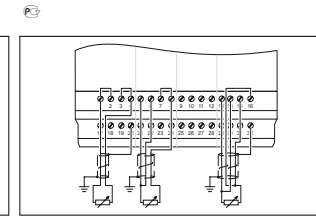


Technical data

	IB ST 24 AI 4(I <sup>1</sup> )	IB ST 24 BAI 8(U <sup>1</sup> )
Interface	ST local bus	
Name	ST local bus plug	
Connection method	Screw connection	
Power supply for module electronics	± 24 V DC 5% (ripple)	
Supply voltage	18.5 V DC ... 30.2 V DC	
Supply voltage range	18.5 V DC ... 30.2 V DC	
Analog inputs		
Connection technology	2-wire	8
Number of inputs	4	8
Description of the inputs	Differential input	-
Analog outputs		
Connection technology	-	-
Number of outputs	-	-
General data		
Connection method	Screw connection	
Connection data solid/stranded/AWG	0.2 ... 2.5 mm <sup>2</sup> / 0.2 ... 2.5 mm <sup>2</sup> / 24 - 12	
Weight	465 g	600 g
Width	118 mm	118 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
IB ST 24 AI 4(I <sup>1</sup> )	2719629	1
IB ST 24 BAI 8(U <sup>1</sup> )	2721015	1
IB ST 24 BAI 8(I <sup>1</sup> )	2721028	1

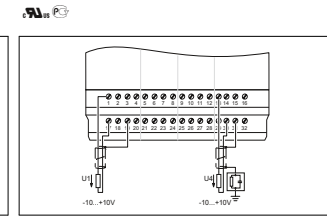


Technical data

	IB ST 24 AO 4(SF <sup>1</sup> )	IB ST 24 BAO 8(U <sup>1</sup> )
Interface	ST local bus	
Name	ST local bus plug	
Connection method	Screw connection	
Power supply for module electronics	± 24 V DC 5% (ripple)	
Supply voltage	18.5 V DC ... 30.2 V DC	
Supply voltage range	18.5 V DC ... 30.2 V DC	
Analog outputs		
Connection technology	2, 3, 4-wire	8
Number of outputs	4	8
Description of the outputs	-	-
Analog inputs		
Connection technology	-	-
Number of inputs	-	-
General data		
Connection method	Screw connection	
Connection data solid/stranded/AWG	0.2 ... 2.5 mm <sup>2</sup> / 0.2 ... 2.5 mm <sup>2</sup> / 24 - 12	
Weight	540 g	600 g
Width	118 mm	118 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
IB ST 24 PT100 4(I <sup>1</sup> )	2752767	1



Technical data

	IB ST 24 AO 4(SF <sup>1</sup> )	IB ST 24 BAO 8(U <sup>1</sup> )
Interface	ST local bus	
Name	ST local bus plug	
Connection method	Screw connection	
Power supply for module electronics	± 24 V DC 5% (ripple)	
Supply voltage	18.5 V DC ... 30.2 V DC	
Supply voltage range	18.5 V DC ... 30.2 V DC	
Analog outputs		
Connection technology	2-wire	8
Number of outputs	4	8
Description of the outputs	-	-
Analog inputs		
Connection technology	-	-
Number of inputs	-	-
General data		
Connection method	Screw connection	
Connection data solid/stranded/AWG	0.2 ... 2.5 mm <sup>2</sup> / 0.2 ... 2.5 mm <sup>2</sup> / 24 - 12	
Weight	540 g	600 g
Width	118 mm	118 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
IB ST 24 AO 4(SF <sup>1</sup> )	2754312	1
IB ST 24 AO 4(SF4 <sup>1</sup> )	2750578	1
IB ST 24 AO 4(BP <sup>1</sup> )	2752521	1
IB ST 24 BAO 8(U <sup>1</sup> )	2721044	1

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Product	Code	Reference	Product link
INTERBUS-ST analog input module, 4 electrically isolated inputs, 0 - 20 mA, 4 - 20 mA, 0 - 10 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics	2719629	IB ST 24 AI 4/ I	<a href="#">Buy on EAN</a>
INTERBUS-ST analog input module, 8 inputs, 0 to 10 V, 0 to 5 V, 0 to 25 V, 0 to 50 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics	2721015	IB ST 24 BAI 8/U	<a href="#">Buy on EAN</a>
INTERBUS-ST analog input module, 8 inputs, 0 to 20 mA, 4 to 20 mA, 0 to 40 mA, 0 to 60 mA, IP20 protection, consisting of: terminal part with screw connection and module electronics	2721028	IB ST 24 BAI 8/I	<a href="#">Buy on EAN</a>
INTERBUS-ST analog output module, D/A resolution 13-bit, 8 outputs, -10 V to +10 V, - 12 to + 12 V, consisting of: Terminal part with screw connection and module electronics	2721044	IB ST 24 BAO 8/U	<a href="#">Buy on EAN</a>
INTERBUS-ST analog input module, 2 inputs, 0 to 20 mA, 4 to 20 mA, 0 to 10 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics,	2722771	IB ST 24 BAI 2/SF	<a href="#">Buy on EAN</a>
INTERBUS-ST analog input module, 4 inputs, 4 - 20 mA, 0 - 10 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics	2750565	IB ST 24 AI 4/ SF4	<a href="#">Buy on EAN</a>
INTERBUS-ST analog output module, D/A resolution 13-bit, 4 outputs, 4 to 20 mA, 0 to 10 V, consisting of: Terminal part with screw connection and module electronics	2750578	IB ST 24 AO 4/SF4	<a href="#">Buy on EAN</a>
INTERBUS-ST analog input module, 4 inputs, 4 - 20 mA, -10 to +10 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics	2751564	IB ST 24 AI 4/ BP	<a href="#">Buy on EAN</a>
INTERBUS-ST analog output module, D/A resolution 13-bit, 4 outputs, -10 V to +10 V, consisting of: Terminal part with screw connection and module electronics	2752521	IB ST 24 AO 4/BP	<a href="#">Buy on EAN</a>

INTERBUS-ST analog input module, 4 inputs, RTD, 2, 3 and 4-wire connection, IP20 protection, consisting of: Terminal part with screw connection and module electronics	2752767	IB ST 24 PT100 4/4	<a href="#">Buy on EAN</a>
INTERBUS-ST analog input module, 4 inputs, 0 - 20 mA, 0 - 10 V, IP20 protection, consisting of: Terminal part with screw connection and module electronics	2754309	IB ST 24 AI 4/ SF	<a href="#">Buy on EAN</a>
INTERBUS-ST analog output module, D/A resolution 13 bit, 4 outputs, 0 - 20 mA, 0 - 10 V, consisting of: Terminal part with screw connection and module electronics	2754312	IB ST 24 AO 4/SF	<a href="#">Buy on EAN</a>