

## Replacement electronics module - IB STME 24 AI 4/EF - 2701955

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INTERBUS-ST analog input module, 4 inputs, 0 - 10 V,  $\pm 10$  V, 0 - 20 mA, 4 - 20 mA, degree of protection IP20, comprising: Module electronics only

### Your advantages

- 4 analog, differential input channels for the connection of either voltage or current signals
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Sensor supply +15 V DC



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 895743
GTIN	4046356895743
Weight per Piece (excluding packing)	240.000 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

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## Technical data

### Ambient conditions

Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
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)
Degree of protection	IP20

### General

Mounting type	DIN rail
Net weight	245.1 g
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

### Interfaces

Designation	ST local bus
Number	2
Connection method	ST local bus connector
Transmission speed	500 kbps
Transmission physics	Copper

### Power supply for 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
Designation	U <sub>S</sub>
Supply voltage	24 V DC
Protective circuit	Reverse polarity protection Serial diode

### Analog inputs

Input name	Analog inputs
Number of inputs	max. 4 (differential inputs, voltage or current)
Connection technology	2-, 3-, 4-conductor (shielded)
A/D conversion time	max. 10 μs (per channel)
Measuring principle	Successive approximation
Measured value representation	16 bit two's complement
Number of inputs	4 (differential inputs, voltage)

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### Analog inputs

Voltage input signal	0 V ... 10 V (SF and SF4 mode)
	-10 V ... 10 V (Mode BP)
Input resistance of voltage input	200 kΩ
Common mode voltage range signal - ground	-35 V DC ... 35 V DC
Number of inputs	4 (Differential inputs, current)
Current input signal	0 mA ... 20 mA (SF mode)
	4 mA ... 20 mA (BP and SF4 mode)
Input resistance current input	50 Ω

### Electrical isolation

Test section	Bus/Inputs 500 V AC 50 Hz 1 min.
	Supply voltage/inputs 500 V AC 50 Hz 1 min.
	Supply voltage/Ground conductor 500 V AC 50 Hz 1 min.
	I/O voltage/Ground conductor 500 V AC 50 Hz 1 min.

### Standards and Regulations

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

## Classifications

### eCl@ss

eCl@ss 10.0.1	27242601
eCl@ss 11.0	27242601
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242601
eCl@ss 9.0	27242601

### ETIM

ETIM 4.0	EC001599
ETIM 6.0	EC001596
ETIM 7.0	EC001596

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### Classifications

#### UNSPSC

UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602