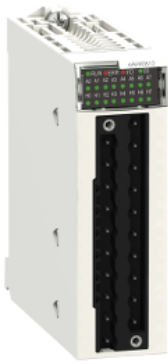


# Product datasheet

Specifications



## analog input module X80 - 8 inputs HART - current Isolated

BMEAHI0812

### Main

Range of product	Modicon X80
Product or component type	Analog input module

### Complementary

Application specific I/O	HART
Product compatibility	BMEP58... processor BMXFTB20... terminal block ABE7CPA31 BMEXBP... backplane ABE7CPA02 ABE7CPA03 Head module BMECRA31210
Electrical connection	20 ways terminal block Telefast
Isolation between channels	Isolated
Analogue input number	8
Analogue input type	Current 4...20 mA
Analogue input resolution	15 bits + sign
Input impedance	250 Ohm internally protective resistor (3.6 to 50 Ohm)
Measurement error	0.15 % of full scale 25 °C <= 0.3 % of full scale 0...60 °C
Temperature drift	50 ppm/°C
Isolation voltage	1000 V DC for 60 s between channels 1400 V DC for 60 s between channels and ground 1400 V DC for 60 s between channels and bus
Checks	Broken wire detection
Topology	Point-to-point
Function available	I/O mapping
Net weight	0.233 kg

### Environment

Ambient air temperature for operation	0...60 °C
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product certifications	CE RCM

CSA  
EAC  
Merchant Navy  
UL

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<b>Standards</b>	EN/IEC 61010-2-201 EN/IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201
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<b>IP degree of protection</b>	IP20
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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
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<b>Package 1 Weight</b>	235 g
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<b>Package 1 Height</b>	5.5 cm
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<b>Package 1 width</b>	11 cm
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<b>Package 1 Length</b>	12 cm
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<b>Unit Type of Package 2</b>	S02
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<b>Number of Units in Package 2</b>	15
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<b>Package 2 Weight</b>	3.8 kg
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<b>Package 2 Height</b>	15 cm
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<b>Package 2 width</b>	30 cm
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<b>Package 2 Length</b>	40 cm
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## Offer Sustainability

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<b>Sustainable offer status</b>	Green Premium product
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<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
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<b>REACH free of SVHC</b>	Yes
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<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
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<b>Mercury free</b>	Yes
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<b>RoHS exemption information</b>	<a href="#">Yes</a>
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<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
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<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
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<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
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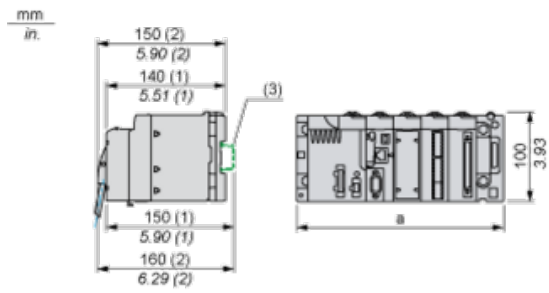
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<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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**Modules Mounted on Racks**

**Dimensions**



(1) with removable terminal block (cage, screw or spring)

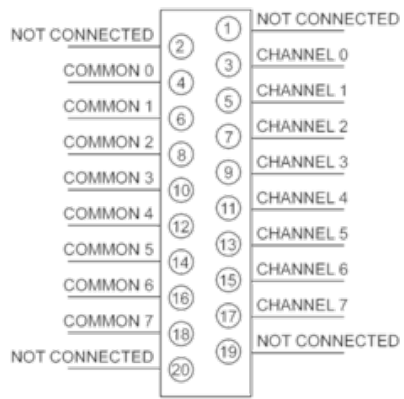
(2) with FCN connector

(3) on AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMEXBP0400/0400H/0800/0800H/1200/1200H rack.

	a (in mm)	a (in in.)
BMEXBP0400 and BMEXBP0400H	242.4	09.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81

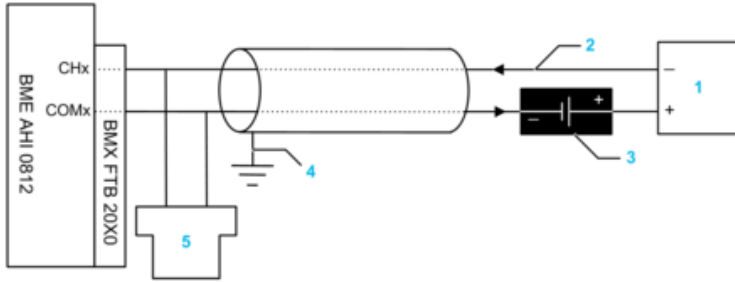
**Module Connection**

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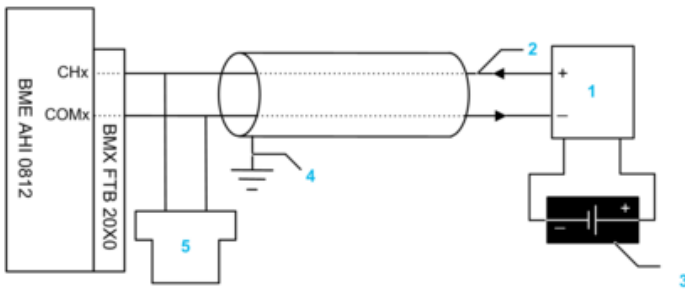
**Input Circuit Diagram**

**With 2-Wire Transmitter**



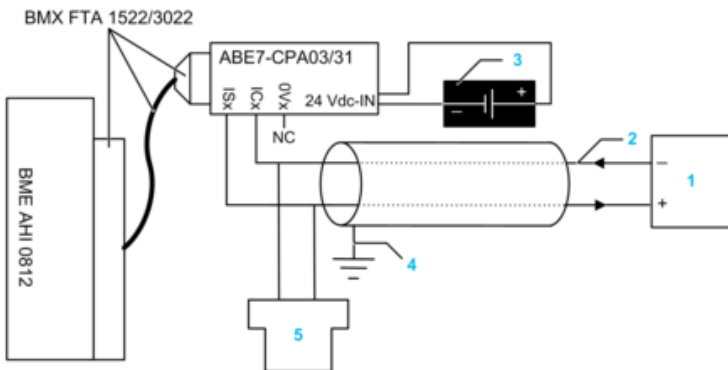
- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

**With 4-Wire Transmitter**



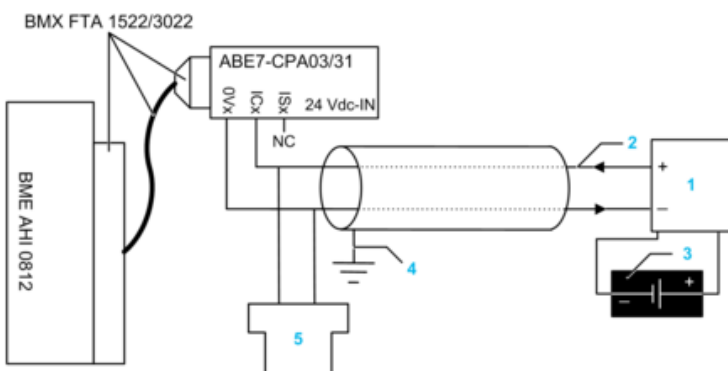
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

**With 2-Wire Transmitter and TELEFAST Connector with Power Supply**



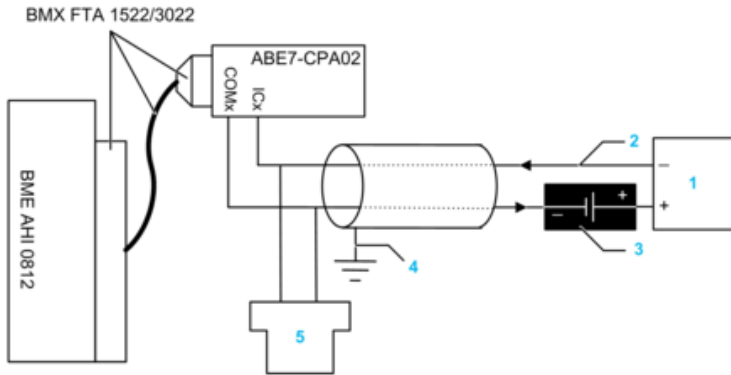
- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 24 Vdc power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

**With 4-Wire Transmitter and TELEFAST Connector with Power Supply**



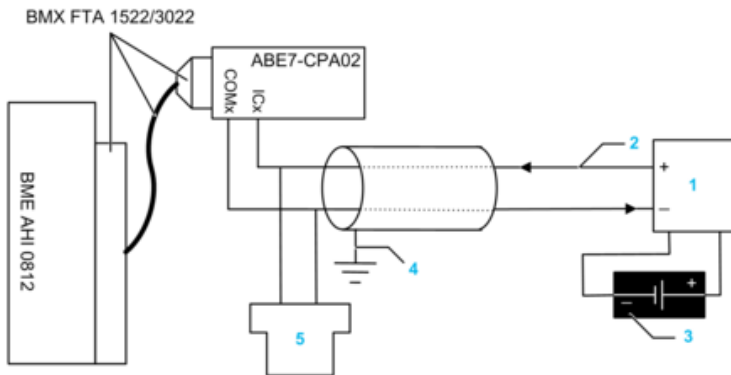
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

**With 2-Wire Transmitter and TELEFAST Connector without Power Supply**



- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

**With 4-Wire Transmitter and TELEFAST Connector without Power Supply**



- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)