Product datasheet

Specifications

analog isolated high level output module, Modicon X80, 4 HART outputs, 4 to 20mA

BMEAHO0412

Main

Range Of Product	Modicon X80
Product Or Component Type	Analog output module

Complementary

Application Specific I/O	HART
Product Compatibility	BMEP58... processor BMEXBP... backplane ABE7CPA21 Head module BMECRA31210 BMXFTB20... terminal block
Electrical Connection	20 ways terminal block Telefast
Isolation Between Channels	Isolated
Measurement Error	0.1 % of full scale 25 °C 0.2 % of full scale 0...60 °C
Temperature Drift	45 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
Load Impedance Ohmic	600 Ohm 0...20 mA 570 Ohm 0...21 mA
Analogue Output Number	4
Analogue Output Type	Current: 4...20 mA
Analogue Output Resolution	15 bits + sign
Topology	Point-to-point
Function Available	I/O mapping
Net Weight	0.223 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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Standards	EN/IEC 61010-2-201
	EN/IEC 61131-2
	UL 61010-2-201
	CSA C22.2 No 61010-2-201

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.100 cm
Package 1 Length	11.800 cm
Package 1 Weight	216.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.571 kg

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

Guide to assess a product's sustainability ⟩

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   Yes

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

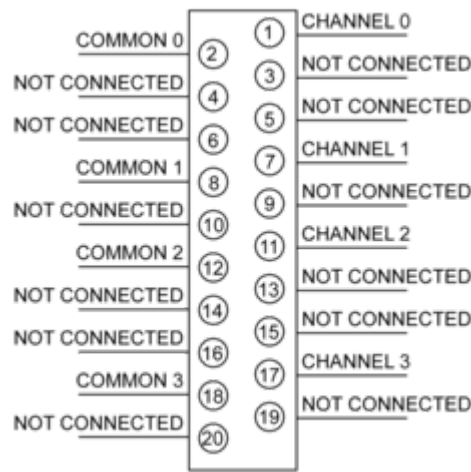**Modules Mounted on Racks**

Dimensions
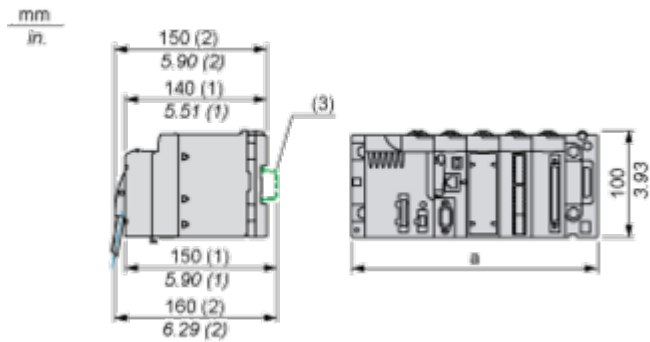
(1) with removable terminal block (cage, screw or spring)
(2) with FCN connector
(3) on AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMEXBP0400/0400H/0800/0800H/1200/1200H rack.

	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

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Connections and Schema

Module Connection

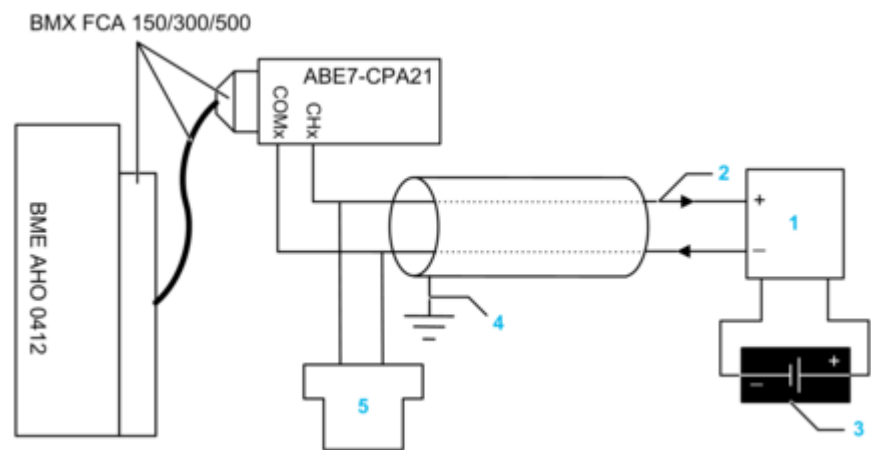| Left	Pin	Pin	Right
COMMON 0	②	①	CHANNEL 0
NOT CONNECTED	④	③	NOT CONNECTED
NOT CONNECTED	⑥	⑤	NOT CONNECTED
COMMON 1	⑧	⑦	CHANNEL 1
NOT CONNECTED	⑩	⑨	NOT CONNECTED
COMMON 2	⑫	⑪	CHANNEL 2
NOT CONNECTED	⑭	⑬	NOT CONNECTED
NOT CONNECTED	⑯	⑮	NOT CONNECTED
COMMON 3	⑱	⑰	CHANNEL 3
NOT CONNECTED	⑳	⑲	NOT CONNECTED

Output Circuit Diagram

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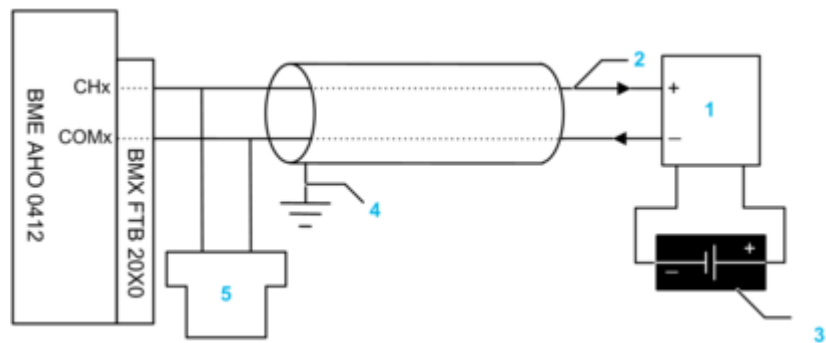
1 2-wire or 4-wire transmitter
2 4-20 mA current loop, with arrows indicating direction of current flow
3 Field power supply (for 4-wire design only)
4 Protective ground
5 Secondary HART master (hand-held)

With 2-Wire or 4-Wire Transmitter, TELEFAST Connector

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