Product data sheet

Specifications



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

BMEAHO0412

Product availability: Stock - Normally stocked in distribution facility

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 60 s between channels 1400 V DC 60 s between channels and ground 1400 V DC 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
Product Weight	0.492 lb(US) (0.223 kg)

Environment

Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product certifications	CE RCM CSA EAC Merchant Navy UL

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Standards	IEC 61010-2-201 IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201
Protective treatment	Standard version

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606480692321
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	4.370 in (11.100 cm)
Package 1 Length	4.646 in (11.800 cm)
Package weight(Lbs)	7.619 oz (216.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	7.873 lb(US) (3.571 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**262 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**28 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**233 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.4 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Longer

Lifetime extension

Repair	**No**

Use Again

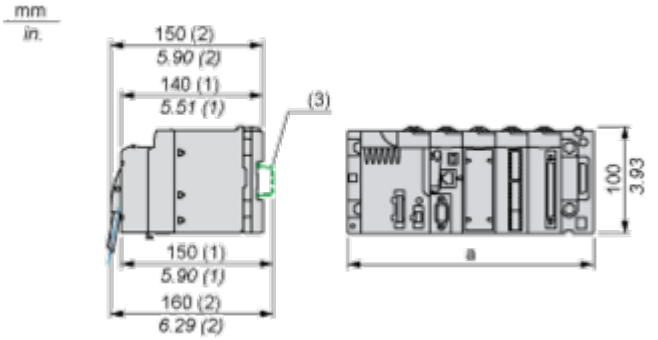
Repack and remanufacture

Recyclability potential, in %	**3**
Circularity Profile	End of Life Information
Take-back	**No**

Dimensions Drawings

Modules Mounted on Racks

Dimensions

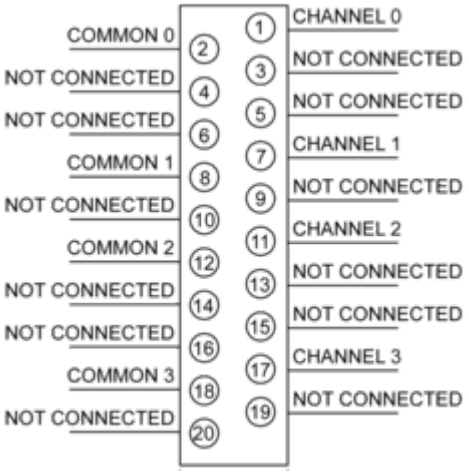


(1) with removable terminal block (cage, screw or spring)
(2) with FCN connector
(3) on AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMEXBP0400/0400H/0800/0800H/1200/1200H rack.

	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

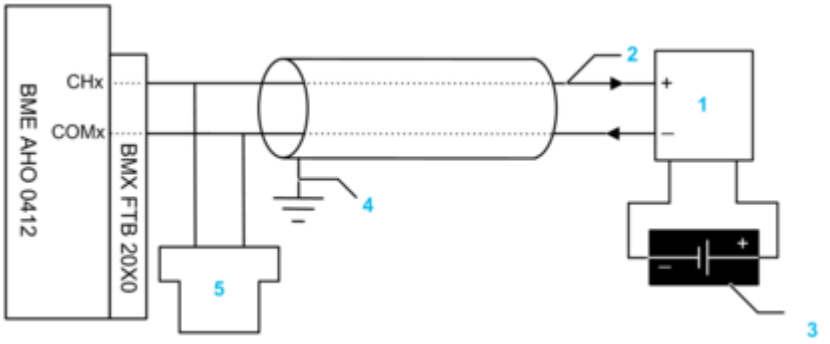
Connections and Schema

Module Connection



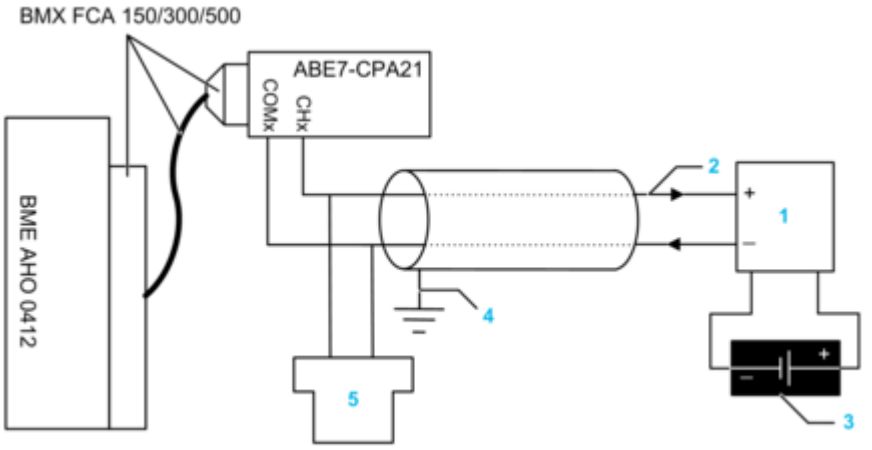
Output Circuit Diagram

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)

Image of product / Alternate images

Alternative






BMEAHO0412
RUN ERR I/O SVC
A0 A1 A2 A3
H0 H1 H2 H3


Schneider
Electric
Modicon
BMEAHO0412
Ana 4 Out Current Isolated
HART
DOM : XXXX

