Product data sheet

Specifications



analog isolated high level input module, Modicon X80, 8 HART inputs, 4 to 20mA

BMEAHI0812

Product availability: Stock - Normally stocked in distribution facility

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 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
Topology	Point-to-point
Function Available	I/O mapping
Product Weight	0.514 lb(US) (0.233 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
IP Degree of Protection	IP20
Protective treatment	Standard version

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606480692314
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.244 in (5.700 cm)
Package 1 Width	4.409 in (11.200 cm)
Package 1 Length	4.724 in (12.000 cm)
Package weight(Lbs)	8.007 oz (227.000 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	8.311 lb(US) (3.770 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	**138 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**29 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]	**108 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

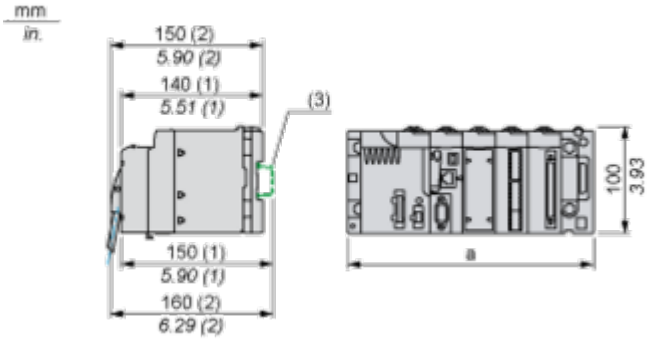
Repack and remanufacture

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

Dimensions Drawings

Modules Mounted on Racks

Dimensions

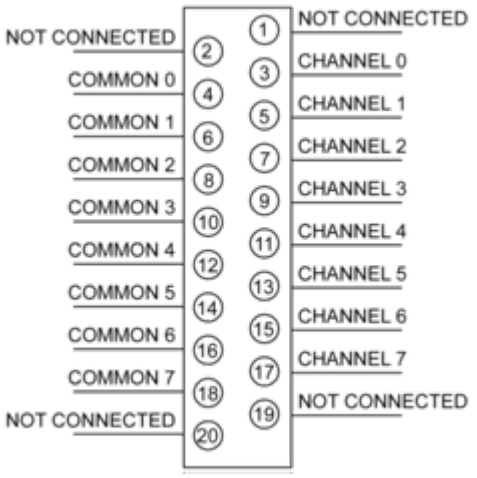


(1) with removable terminal block (cage, screw or spring)
(2) with FCN connector
(3) on AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMEXBP0400/0400H/0800/0800H/1200/1200H rack.

	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

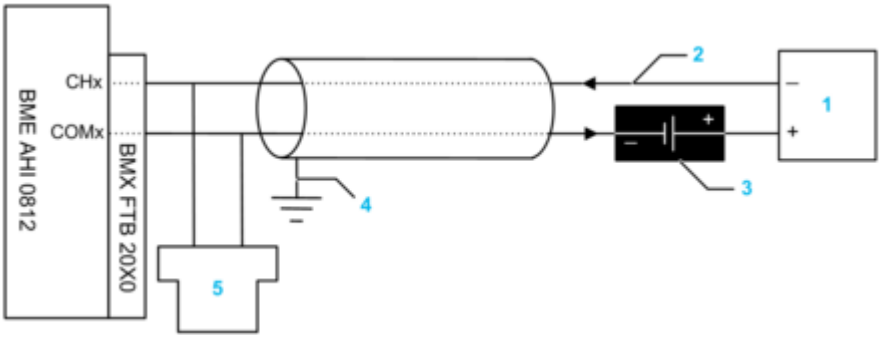
Connections and Schema

Module Connection



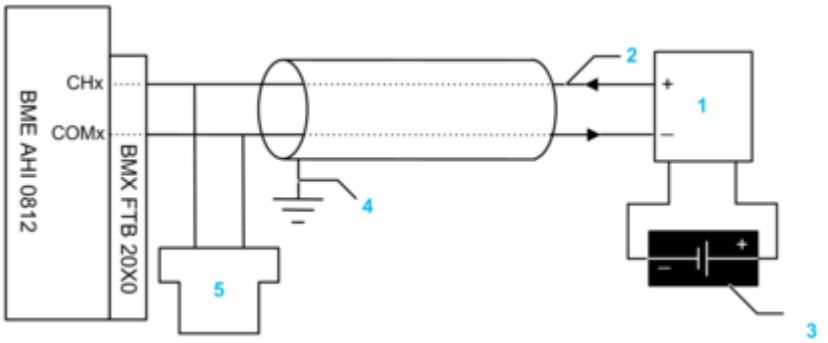
Input Circuit Diagram

With 2-Wire Transmitter



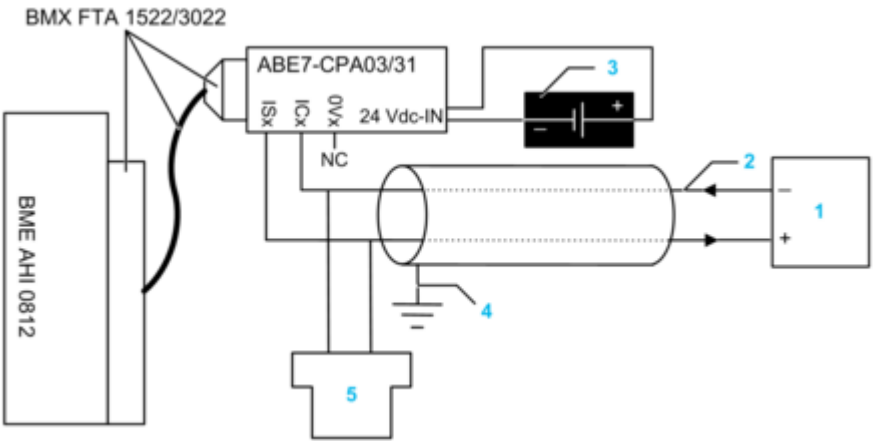
1 2-wire transmitter
2 4-20 mA current loop, with arrows indicating direction of current flow
3 Field power supply
4 Protective ground
5 Secondary HART master (hand-held)

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)

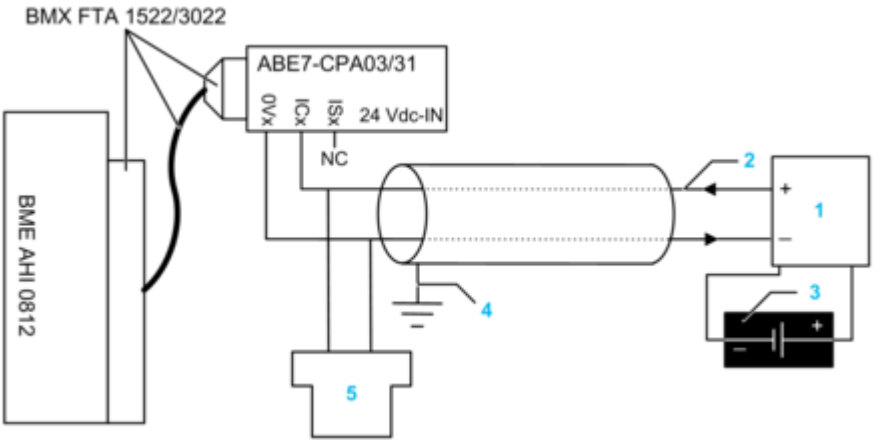
With 2-Wire Transmitter and TELEFAST Connector with Power Supply



1 2-wire transmitter
2 4-20 mA current loop, with arrows indicating direction of current flow

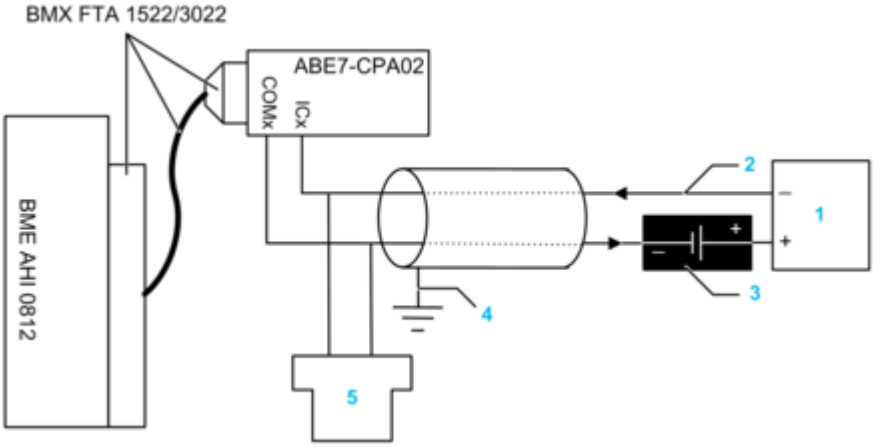
3 24 Vdc power supply
4 Protective ground
5 Secondary HART master (hand-held)

With 4-Wire Transmitter and TELEFAST Connector with Power Supply



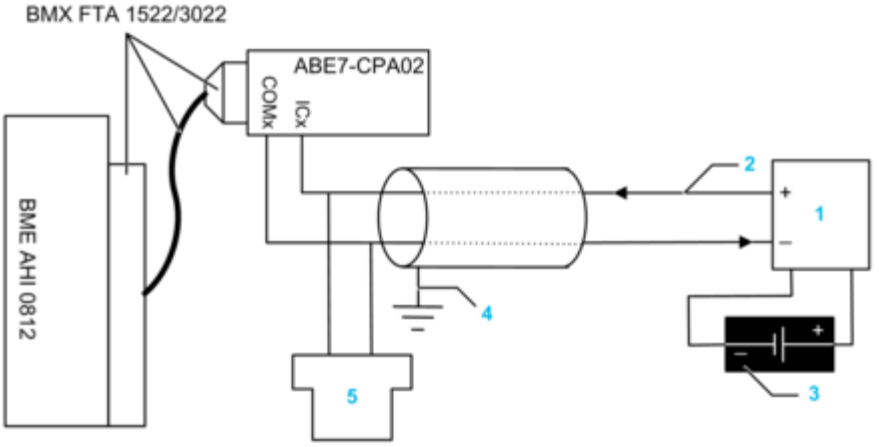
1 4-wire transmitter
2 4-20 mA current loop, with arrows indicating direction of current flow
3 Field power supply
4 Protective ground
5 Secondary HART master (hand-held)

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



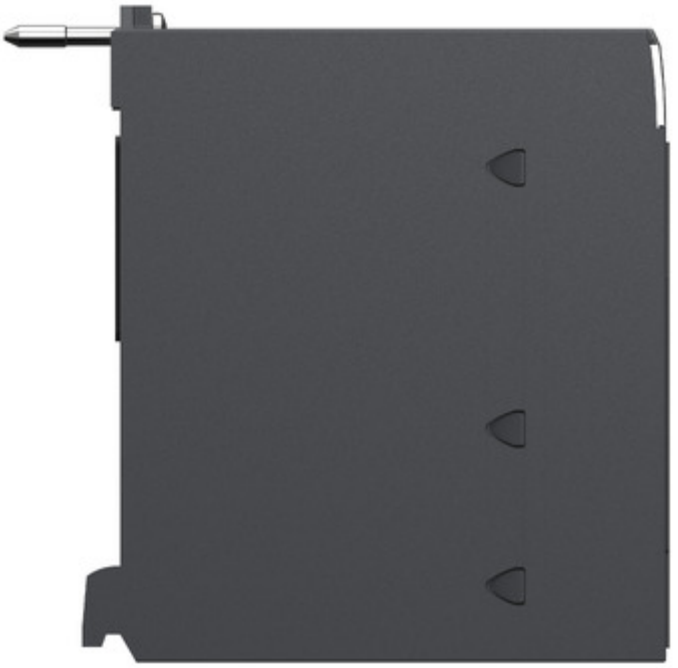
1 4-wire transmitter
2 4-20 mA current loop, with arrows indicating direction of current flow
3 Field power supply
4 Protective ground
5 Secondary HART master (hand-held)

Image of product / Alternate images

Alternative








SN:XXXXXXXXXXX
PV:XX SV:XX RL:XX




RUN
A0 A1 A2 A3 A4 A5 A6 A7
H0 H1 H2 H3 H4 H5 H6 H7