

BMEAHI0812

analog input module X80 - 8 inputs HART -
current Isolated

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	ABE7CPA02 ABE7CPA03 ABE7CPA31 BMEP58... processor Head module BMECRA31210 BMEXBP... backplane BMXFTB20... terminal block
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 for internally protected resistor
Measurement error	0.15 % of full scale at 25 °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 bus 1400 V DC for 60 s between channels and ground
Checks	Broken wire detection
Topology	Point-to-point
Function available	I/O mapping
Product weight	0.51 lb(US) (0.233 kg)

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

Environment

Ambient air temperature for operation	32...140 °F (0...60 °C)
Directives	2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
Standards	EN 61000-6-2 EN 61000-6-4 EN 61131-2 EN 61010-2-201

Ordering and shipping details

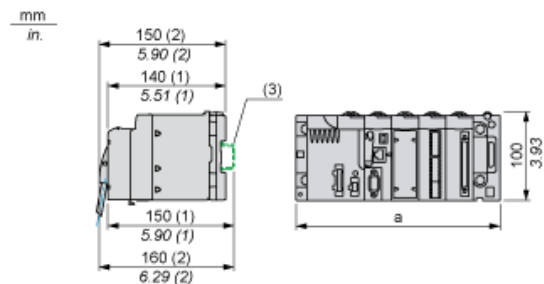
Category	18160 - MODICON M340
Discount Schedule	PC34
GTIN	00785901095071
Nbr. of units in pkg.	1
Package weight(Lbs)	0.5200000000000002
Returnability	Y
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1623 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.
----- More information	For more information go to www.p65warnings.ca.gov

Modules Mounted on Racks

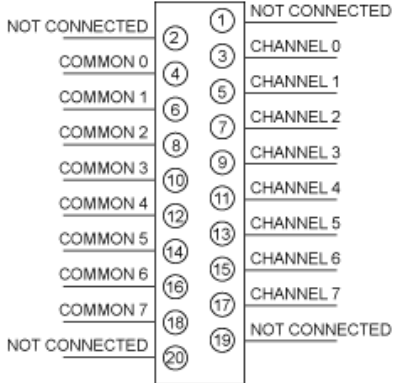
Dimensions



- (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.

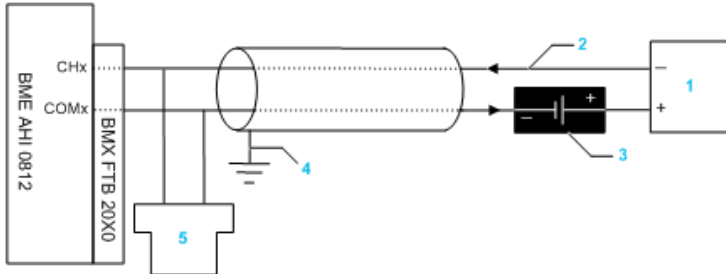
	a (in mm)	a (in in.)
BMEXBP0400 and BMEXBP0400H	242.4	09.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81

Module Connection



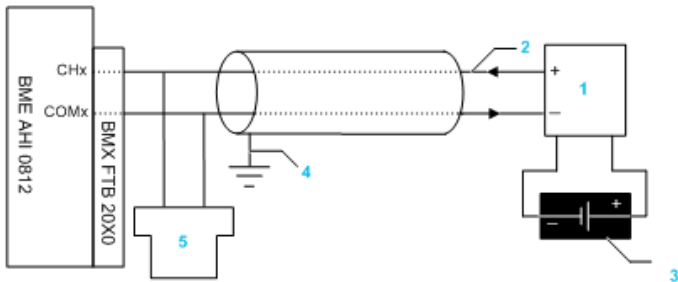
Input Circuit Diagram

With 2-Wire Transmitter



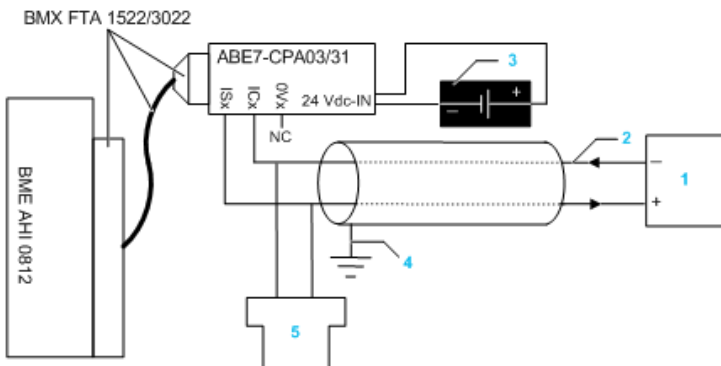
- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

With 4-Wire Transmitter



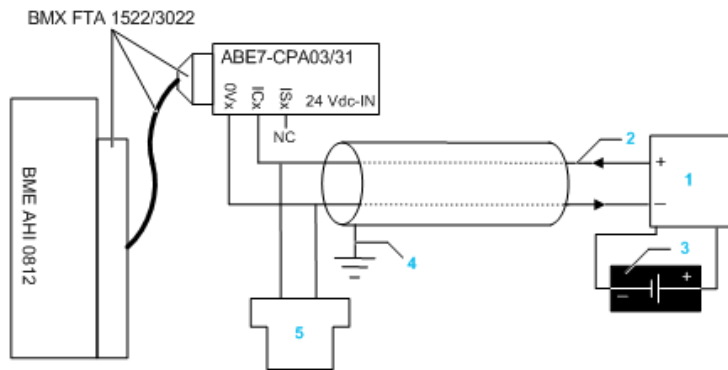
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

With 2-Wire Transmitter and TELEFAST Connector with Power Supply



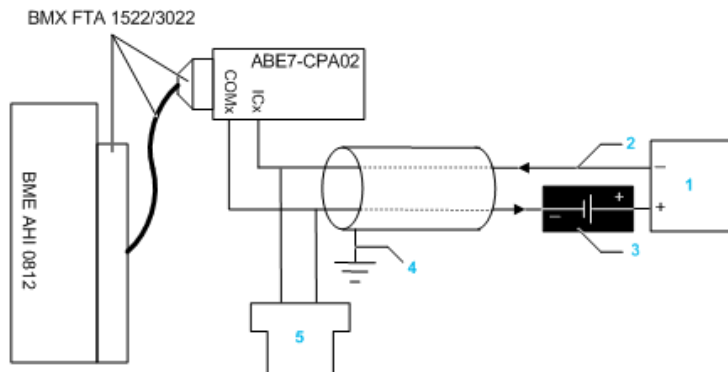
- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 24 Vdc power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

With 4-Wire Transmitter and TELEFAST Connector with Power Supply



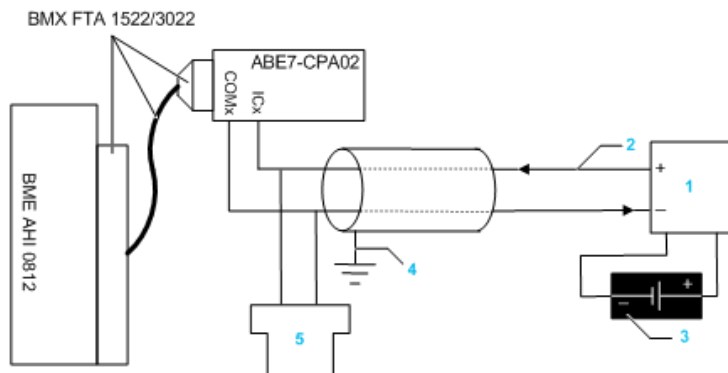
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

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)