

## Main

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

## Complementary

|                           |                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Application specific I/O  | HART                                                                                                                                       |
| Product compatibility     | ABE7CPA02<br>ABE7CPA03<br>ABE7CPA31<br>BMEP58... processor<br>Head module BMECRA31210<br>BMEXBP... backplane<br>BMXFTB20... terminal block |
| Electrical connection     | 20 ways terminal block<br>Telefast                                                                                                         |
| Input output isolation    | 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<br>1400 V DC for 60 s between channels and bus<br>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            | 0.233 kg                                                                                                                                   |

## Environment

|                                       |                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ambient air temperature for operation | 0...60 °C                                                                                                       |
| directives                            | 2012/19/EU - WEEE directive<br>2014/30/EU - electromagnetic compatibility<br>2014/35/EU - low voltage directive |
| standards                             | EN 61000-6-2<br>EN 61000-6-4<br>EN 61131-2<br>EN 61010-2-201                                                    |

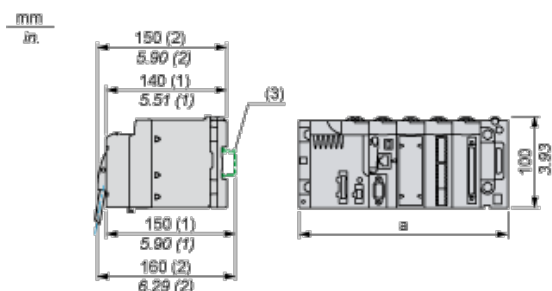
## Offer Sustainability

|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| Sustainable offer status | Green Premium product                                                 |
| RoHS (date code: YYWW)   | Compliant - since 1623 - Schneider Electric declaration of conformity |

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| REACH                            | Reference not containing SVHC above the threshold |
| Product environmental profile    | Available                                         |
| Product end of life instructions | Available                                         |

## Modules Mounted on Racks

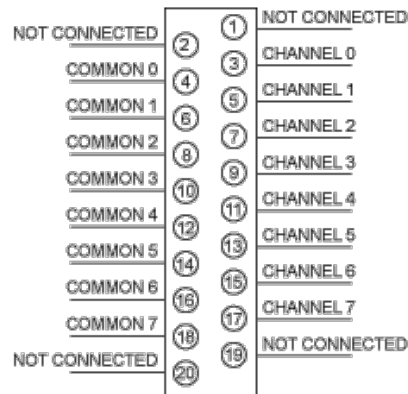
### Dimensions



- (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.

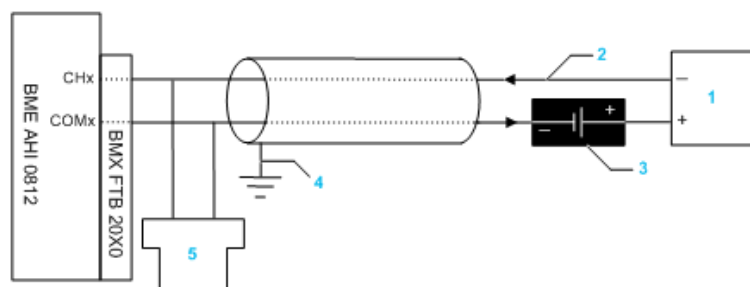
|                            | a (in mm) | a (in in.) |
|----------------------------|-----------|------------|
| BMEXBP0400 and BMEXBP0400H | 242.4     | 09.54      |
| BMEXBP0800 and BMEXBP0800H | 372.8     | 14.68      |
| BMEXBP1200 and BMEXBP1200H | 503.2     | 19.81      |

## Module Connection



## Input Circuit Diagram

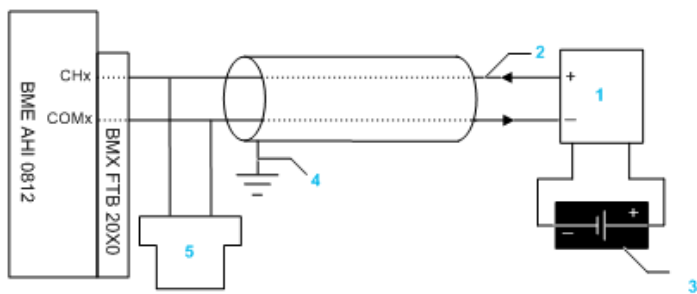
### With 2-Wire Transmitter



- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground

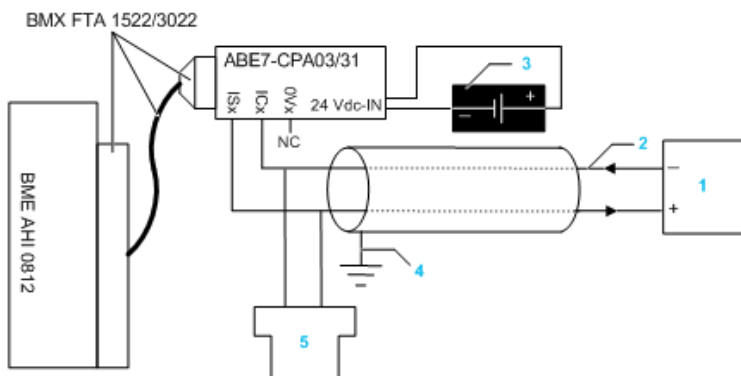
## 5 Secondary HART master (hand-held)

### With 4-Wire Transmitter



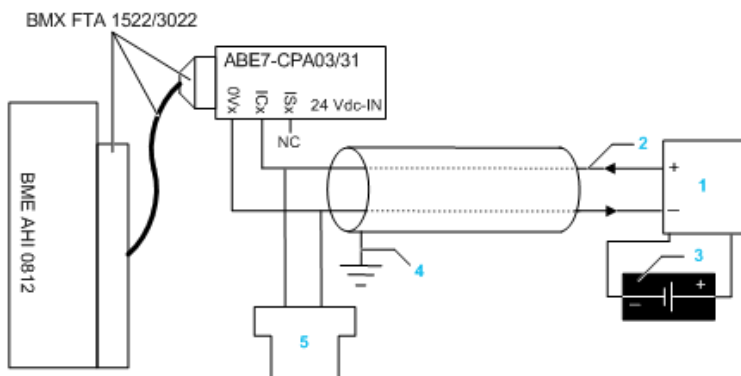
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

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



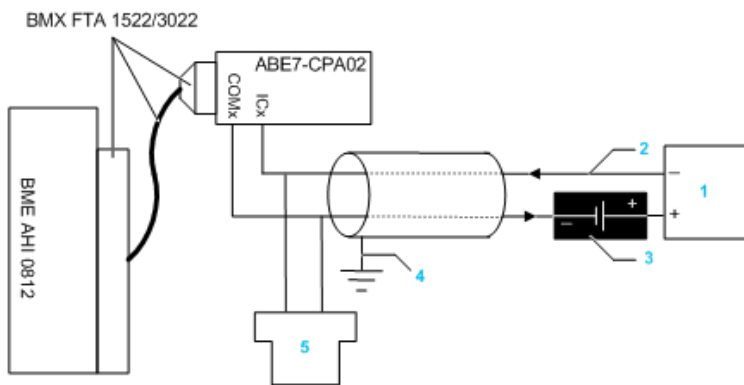
- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 24 Vdc power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

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



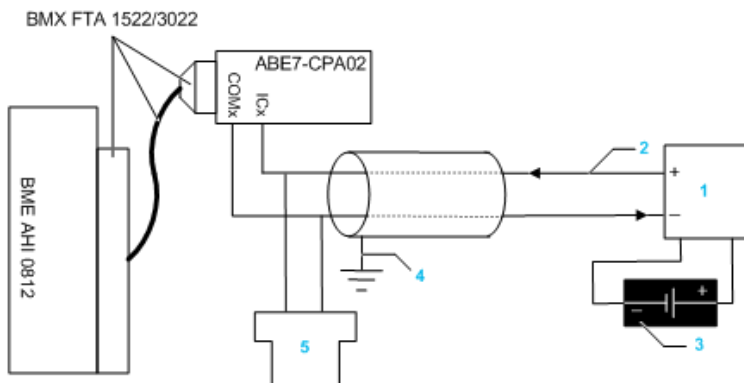
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

### 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)