# Product data sheet

Specifications



## Analog high level output module, Modicon X80, 8 outputs, 0 to 20mA, 4 to 20mA

BMXAMO0802

**Product availability: Stock - Normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range of Product** | Modicon X80 |
| **Product or Component Type** | Analog output module |
| **Electrical connection** | 20 ways 1 connector |
| **Isolation between channels** | Non isolated |

## Complementary

| | |
|---|---|
| **Analogue input resolution** | 16 bits |
| **Measurement error** | <= 0.25 % of full scale 0...60 °C<br>0.1 % of full scale 25 °C |
| **Temperature drift** | 45 ppm/°C 0...20 mA<br>45 ppm/°C 4...20 mA |
| **Minimum crosstalk attenuation** | 80 dB |
| **Common mode rejection** | 80 dB |
| **Isolation voltage** | 1400 V DC between channels and ground<br>1400 V DC between channels and bus |
| **Detection type** | Open circuit 4...20 mA<br>Short circuit 0...20 mA |
| **Load impedance ohmic** | <= 350 Ohm 0...20 mA<br><= 350 Ohm 4...20 mA |
| **Output level** | High level |
| **Analogue output number** | 8 |
| **Analogue output type** | Current 0...20 mA<br>Current 4...20 mA |
| **Analogue output resolution** | 16 bits |
| **Supply** | Internal power supply via rack |
| **Conversion time** | <= 4 ms |
| **Maximum conversion value** | 0...21 mA 0...20 mA<br>0...21 mA 4...20 mA |
| **Fallback mode** | Configurable<br>Predefined |
| **MTBF reliability** | 1500000 H |
| **Operating altitude** | 0...6561.68 ft (0...2000 m)<br>2000...5000 m with derating factor |
| **Status LED** | 1 LED (Green) RUN<br>1 LED per channel (Green) channel diagnostic<br>1 LED (Red) ERR<br>1 LED (Red) I/O |

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

| | |
|---|---|
| **Product Weight** | 0.33 lb(US) (0.15 kg) |
| **Power consumption in W** | 3.6 W 24 V DC typical<br>3.9 W 24 V DC maximum<br>0.35 W 3.3 V DC typical<br>0.48 W 3.3 V DC maximum |
| **Current consumption** | 150 mA 3.3 V DC<br>135 mA 24 V DC |

## Environment

| | |
|---|---|
| **Vibration resistance** | 3 gn |
| **Shock resistance** | 30 gn |
| **Ambient Air Temperature for Storage** | -40…185 °F (-40…85 °C) |
| **Ambient Air Temperature for Operation** | 32…140 °F (0…60 °C) |
| **Relative humidity** | 5…95 % 131 °F (55 °C) without condensation |
| **IP Degree of Protection** | IP20 |
| **Directives** | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility |
| **Product Certifications** | CE<br>RCM<br>CSA<br>EAC<br>Merchant Navy<br>UL |
| **Standards** | IEC 61010-2-201<br>IEC 61131-2<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201 |
| **Protective treatment** | Standard version |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PC3418160 |
| **Discount Schedule** | PC34 |
| **GTIN** | 3595864081588 |
| **Returnability** | Yes |
| **Country of origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 2.087 in (5.300 cm) |
| **Package 1 Width** | 4.331 in (11.000 cm) |
| **Package 1 Length** | 4.567 in (11.600 cm) |
| **Package weight(Lbs)** | 5.961 oz (169.000 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** | 6.349 lb(US) (2.880 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 | **225 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **22 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **203 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.3 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

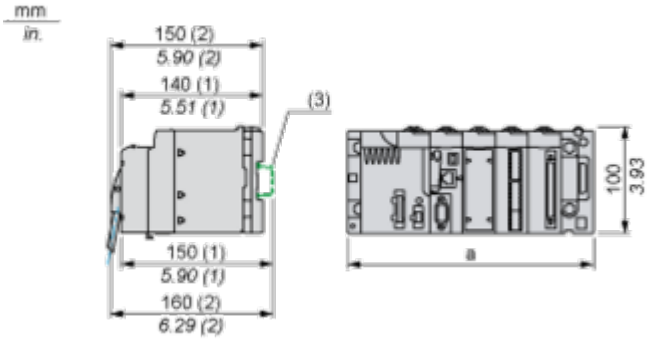
### Repack and remanufacture

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

## Dimensions Drawings

### Modules Mounted on Racks

### Dimensions

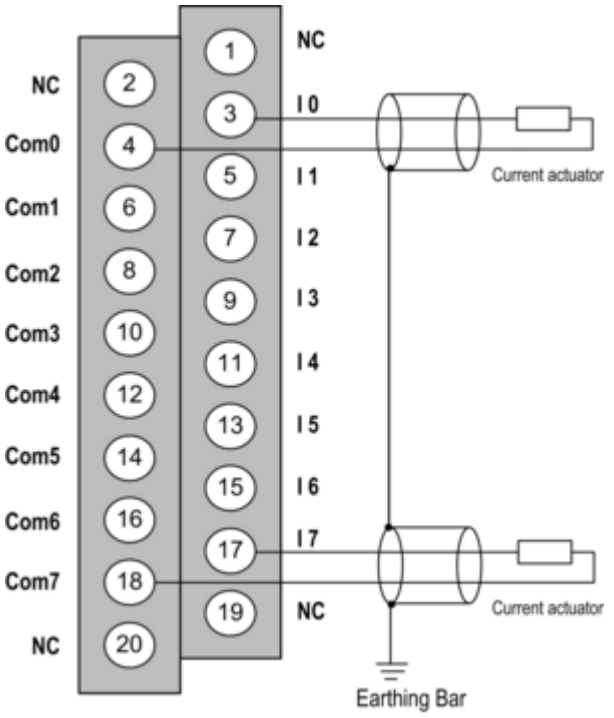



**(1)** With removable terminal block (cage, screw or spring).
**(2)** With FCN connector.
**(3)** On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| Rack references | a in mm | a in in. |
|---|---|---|
| BMXXBP0400 and BMXXBP0400H | 242.4 | 09.54 |
| BMXXBP0600 and BMXXBP0600H | 307.6 | 12.11 |
| BMXXBP0800 and BMXXBP0800H | 372.8 | 14.68 |
| BMXXBP1200 and BMXXBP1200H | 503.2 | 19.81 |

Connections and Schema

**Wiring Diagram**

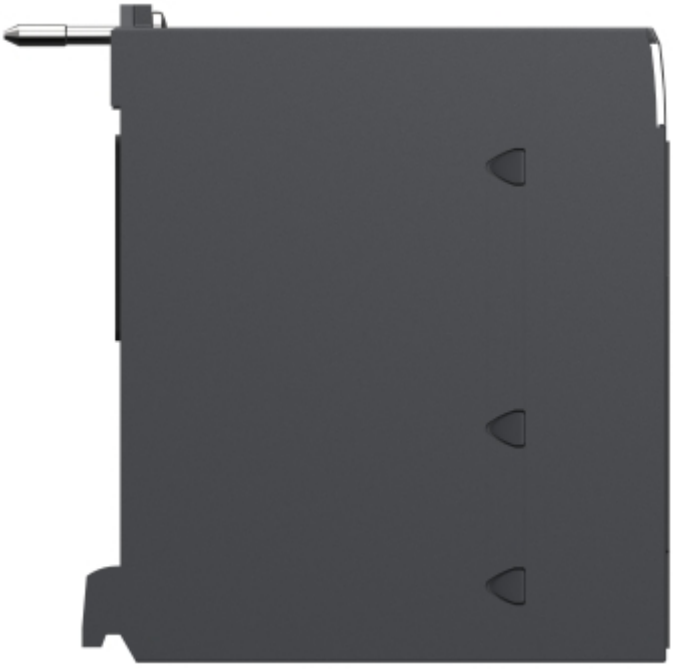



**Ix** + pole input for channel x.
**COMx** - pole input for channel x, COMx are connected together internally.
The current loop is self-powered by the output and does not request any external supply.

Image of product / Alternate images

**Alternative**

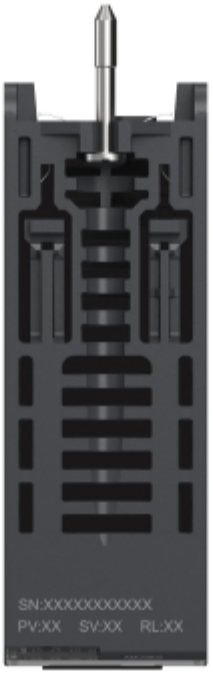









SN:XXXXXXXXXXX
PV:XX SV:XX RL:XX