Product data sheet

Specifications

analog non isolated high level output module, Modicon X80, 8 outputs, 0 to 20mA, 4 to 20mA, for severe environments

BMXAMO0802H

Main

Range of product	Modicon X80
Product or component type	Analog output module
Product specific application	For severe environments
Electrical connection	20 ways 1 connector
Isolation between channels	Non isolated

Complementary

Measurement error	<= 0.45 % of full scale - 25...70 °C 0.1 % of full scale 25 °C
Temperature drift	45 ppm/°C 0...20 mA 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 1400 V DC between channels and bus
Detection type	Open circuit 4...20 mA Short circuit 0...20 mA
Load impedance ohmic	<= 350 Ohm 0...20 mA <= 350 Ohm 4...20 mA
Analogue output number	8
Analogue output type	Current: 0...20 mA 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 0...21 mA 4...20 mA
Fallback mode	Configurable Predefined
MTBF reliability	1500000 H
Operating altitude	0...2000 m 2000...5000 m with derating factor
Status LED	1 LED (green) RUN 1 LED per channel (green) channel diagnostic 1 LED (red) ERR 1 LED (red) I/O
Net weight	0.15 kg

Power consumption in W	3.6 W 24 V DC typical 3.9 W 24 V DC maximum 0.35 W 3.3 V DC typical 0.48 W 3.3 V DC maximum
Current consumption	150 mA at 3.3 V DC 135 mA at 24 V DC

Environment

Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	-25…70 °C
Relative humidity	5…95 % at 55 °C without condensation
IP degree of protection	IP20
Product certifications	Merchant Navy ATEX CE CSA EAC RCM IEC-Ex UL
Standards	EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 61010-2-201
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2 Hazardous location class I division 2
Protective treatment	Conformal coating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.300 cm
Package 1 Width	11.000 cm
Package 1 Length	11.500 cm
Package 1 Weight	180.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.050 kg

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	226
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	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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 Again

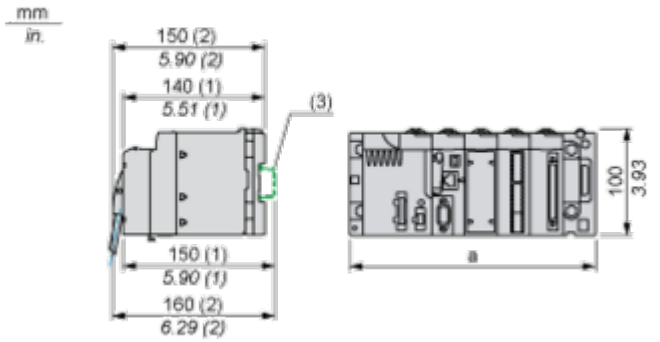
Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No

Dimensions Drawings

Modules Mounted on Racks

Dimensions

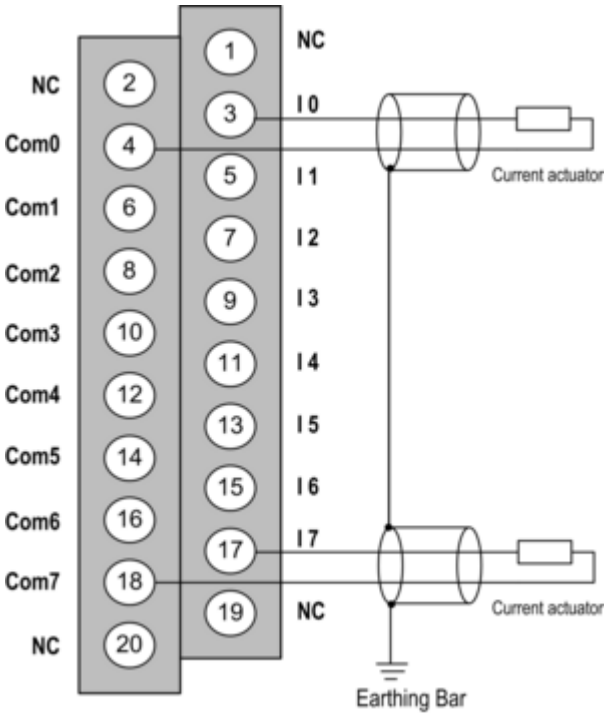


(1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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