

analog input module X80 - 4 inputs - high speed

Local distributor code:

389737191 BMXAMI0410

EAN Code: 3595863910179

Main

Range of product	Modicon X80
Product or component type	Analog input module
Electrical connection	20 ways 1 connector
Isolation between channels	Isolated
Input level	High level
Analogue input number	4
Analogue input type	Current +/- 20 mA Current 020 mA Current 420 mA Voltage +/- 10 V Voltage +/- 5 V Voltage 010 V Voltage 05 V Voltage 15 V

Complementary

Analog/digital conversion	24 bits
Analogue input resolution	16 bits
Permitted overload on inputs	+/- 30 V +/- 10 V
	+/- 30 V +/- 5 V
	+/- 30 V 010 V
	+/- 30 V 05 V
	+/- 30 V 15 V
	+/- 90 mA +/- 20 mA
	+/- 90 mA 020 mA
	+/- 90 mA 420 mA
Input impedance	10 MOhm in voltage mode
	250 Ohm + 3.650 Ohm internal protective resistor in current mode
Precision of internal conversion resistor	0.1 % - 15 ppm/°C
Type of filter	First order digital filtering
Fast read cycle time	1 ms + 1 ms x number of channels used
Nominal read cycle time	5 ms for 4 channels

Measurement error	<= 0.1 % of full scale +/- 10 V 060 °C
	<= 0.1 % of full scale +/- 5 V 060 °C
	<= 0.1 % of full scale 010 V 060 °C
	<= 0.1 % of full scale 05 V 060 °C <= 0.1 % of full scale 15 V 060 °C
	<= 0.3 % of full scale +/- 20 mA 060 °C
	<= 0.3 % of full scale 020 mA 060 °C
	<= 0.3 % of full scale 420 mA 060 °C
	0.075 % of full scale +/- 10 V 25 °C
	0.075 % of full scale +/- 5 V 25 °C
	0.075 % of full scale 010 V 25 °C
	0.075 % of full scale 05 V 25 °C
	0.075 % of full scale 15 V 25 °C 0.15 % of full scale +/- 20 mA 25 °C
	0.15 % of full scale 020 mA 25 °C
	0.15 % of full scale 420 mA 25 °C
Temperature drift	15 ppm/°C +/- 10 V
·	15 ppm/°C +/- 5 V
	15 ppm/°C 010 V
	15 ppm/°C 05 V
	15 ppm/°C 15 V
	30 ppm/°C +/- 20 mA
	30 ppm/°C 020 mA 30 ppm/°C 420 mA
Decelling the section	**
Recalibration	Internal
Minimum crosstalk attenuation	80 dB
Common mode rejection	90 dB
Digital value format	- 32768 to + 32767 in maximum user scale +/- 10000 by default
Isolation voltage	300 V DC between channels
	1400 V DC between channels and ground 1400 V DC between channels and bus
Measurement resolution	0.35 mV +/- 10 V
	0.35 mV +/- 5 V
	0.35 mV 010 V
	0.35 mV 05 V
	0.35 mV 15 V
	0.92 μA +/- 20 mA
	0.92 μA 020 mA 0.92 μA 420 mA
Maximum conversion value	+/- 11.4 V +/- 10 V
	+/- 11.4 V +/- 5 V
	+/- 11.4 V 010 V
	+/- 11.4 V 05 V
	+/- 11.4 V 15 V
	030 mA +/- 20 mA 030 mA 020 mA
	030 mA 420 mA
MTBF reliability	1200000 H
Operating altitude	02000 m 20005000 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	0.143 kg
Power consumption in W	0.82 W 24 V DC typical
•	1.30 W 24 V DC maximum
	0.32 W 3.3 V DC typical
	0.48 W 3.3 V DC maximum
Current consumption	150 mA at 3.3 V DC
	45 mA at 24 V DC

Environment

Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	000 °C
Relative humidity	595 % at 55 °C without condensation
IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product certifications	CE RCM CSA EAC Merchant Navy UL
Standards	EN/IEC 61010-2-201 EN/IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.600 cm
Package 1 Width	11.100 cm
Package 1 Length	11.700 cm
Package 1 Weight	172.000 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	2.923 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

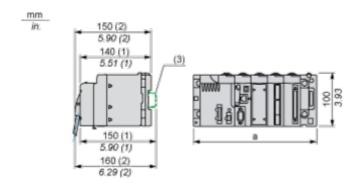
24 Oct 2024

BMXAMI0410

Dimensions Drawings

Modules Mounted on Racks

Dimensions



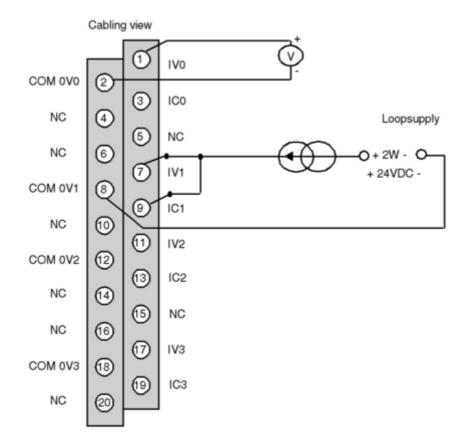
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

BMXAMI0410

Connections and Schema

Wiring Diagram



IVx + pole input for channel x
COM 0Vx - pole input for channel x
ICx current reading resistor + input
Channel 0 voltage sensor
Channel 1 2-wire current sensor

Image of product / Alternate images

Alternative











