Specifications



analog isolated high level input module, Modicon X80, 8 inputs, 0 to 20mA, 4 to 20mA, 10V positive or negative

BMXAMI0810

Product availability: Stock - Normally stocked in distribution facility

Main	
Range Of Product	Modicon X80
Product Or Component Type	Analog input module
Electrical Connection	28 ways 1 connector
Isolation Between Channels	Isolated
Input Level	High level
Analogue Input Number	8
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	16 bits
Analogue Input Resolution	15 bits + sign
Permitted Overload On Inputs	+/- 30 mA 020 mA +/- 30 mA 420 mA +/- 30 V +/- 10 V +/- 30 V +/- 5 V +/- 30 V 010 V +/- 30 V 05 V +/- 30 V 15 V +/- 30 mA +/- 20 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	9 ms for 8 channels

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Life Is On Schneider

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
	0.15 % 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
	0.075 % of full scale +/- 10 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
	0.075 % of full scale +/- 5 V 25 °C
Temperature Drift	30 ppm/°C +/- 10 V
	30 ppn/°C +/- 5 V
	30 ppm/°C 010 V
	30 ppm/°C 05 V
	30 ppm/°C 15 V
	50 ppm/°C +/- 20 mA
	50 ppm/°C 020 mA
	50 ppm/°C 420 mA
Minimum Crosstalk Attenuation	80 dB
Common Mode Rejection	80 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	0.36 mV +/- 10 V
	0.36 mV 010 V
	0.36 mV 05 V
	0.36 mV 15 V
	0.36 mV +/- 5 V
	1.4 μA +/- 20 mA 1.4 μA 020 mA
	1.4 μA 420 mA
Maximum Conversion Value	+/- 11.4 V +/- 10 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
	030 mA +/- 5 V
Mtbf Reliability	900000 H
Operating Altitude	06561.68 ft (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	0.36 lb(US) (0.165 kg)
Power Consumption In W	1.06 W 24 V DC typical
	1.50 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 3.3 V DC
	54 mA 24 V DC
Environment	
ENVIRONMONT	

Environment

Vibration Resistance

Shock Resistance	30 gn
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Ambient Air Temperature For Operation	32140 °F (060 °C)
Relative Humidity	595 % 131 °F (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

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
Gtin	3595864081564
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	5.61 oz (159.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	5.96 lb(US) (2.702 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	240
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	108.03 lb(US) (49.000 kg)

Contractual warranty

Warranty

18 months

Sustainability

Green Premium[™] 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 >

Well-being performance

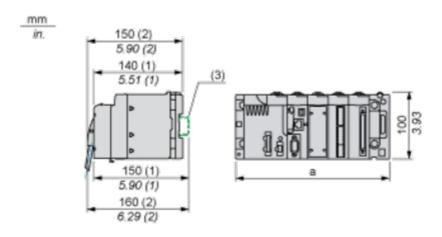
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and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

Product data sheet

Dimensions Drawings

Modules Mounted on Racks

Dimensions



(1) With removable terminal block (cage, screw or spring).

(2) With FCN connector.

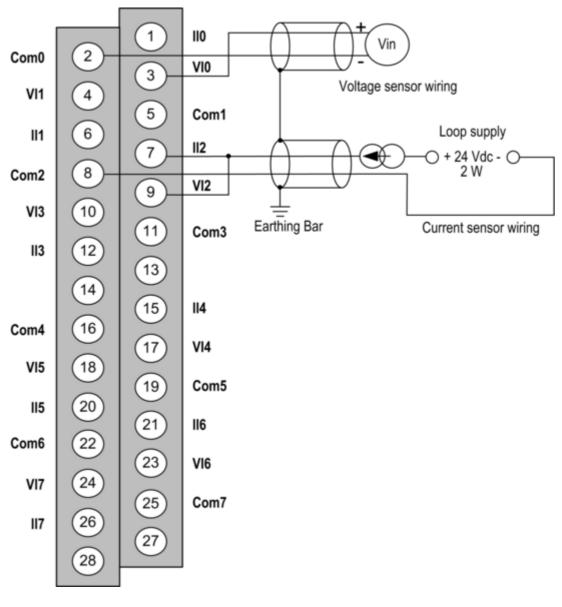
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Iduk.		
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

Product data sheet

Connections and Schema

Wiring Diagram



VIx + pole input for channel x.

 $\ensuremath{\textbf{COMx}}\xspace$ - pole input for channel x, COMx are connected together internally.

IIx current reading resistor + input.

Channel 0 voltage sensor.

Channel 1 2-wire current sensor.