BMXAMI0810H

isolated analog input module





Main

Range of product	Modicon X80	
Product or component type	Analog input module	
Product specific application	For severe environments	
Electrical connection	1 connector 28 ways	
Input output isolation	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 15 V Voltage 15 V	

Complementary

Analog/digital conversion	16 bits	
Analogue input resolution	15 bits + sign	
Input impedance	10 MOhm	
Permitted overload on inputs	+/- 30 mA 020 mA +/- 30 mA 420 mA +/- 30 V +/- 10 V +/- 30 V 010 V +/- 30 V 010 V +/- 30 V 15 V +/- 30 MA +/- 20 mA	
Internal conversion resistor	250 Ohm	
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	
Measurement error	<= 0.2 % of full scale +/- 10 V - 2570 °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 0.08 % of full scale 420 mA 25 °C 0.08 % of full scale 010 V 25 °C 0.08 % of full scale 010 V 25 °C 0.08 % of full scale 15 V 25 °C 0.08 % of full scale 15 V 25 °C 0.08 % of full scale +/- 5 V 25 °C 0.08 % of full scale +/- 5 V 25 °C <= 0.1 % of full scale +/- 10 V - 2570 °C <= 0.1 % of full scale 010 V - 2570 °C <= 0.1 % of full scale 010 V - 2570 °C <= 0.1 % of full scale 15 V - 2570 °C <= 0.1 % of full scale 15 V - 2570 °C <= 0.3 % of full scale 15 V - 2570 °C <= 0.3 % of full scale 420 mA - 2570 °C <= 0.3 % of full scale 020 mA - 2570 °C	
Temperature drift	30 ppm/°C 50 ppm/°C	
Common mode between channels	>= 80 dB	
Digital value format	+/- 10000 by default +/- 32000 in user scale	
Isolation voltage	300 V DC between channels 1400 V DC between channels and ground	

the performance of the products contained herein.

y of these products for specific user applications.

testing of the products with respect to the relevant specific application or use thereof.
misuse of the information contained herein.

	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
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
Status LED	1 LED green RUN 1 LED per channel green channel diagnostic 1 LED red ERR 1 LED red I/O
Product weight	0.175 kg
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	-2570 °C
relative humidity	595 % 55 °C without condensation
IP degree of protection	IP20
product certifications	ATEX CE CSA UL RCM IEC-Ex Merchant Navy EAC
standards	EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
protective treatment	Conformal coating Humiseal 1A33 TC
environmental characteristic	Corrosion resistance Dust resistant
operating altitude	02000 m 20005000 m (with derating factor)

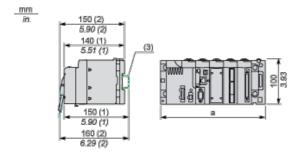
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1206 - 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

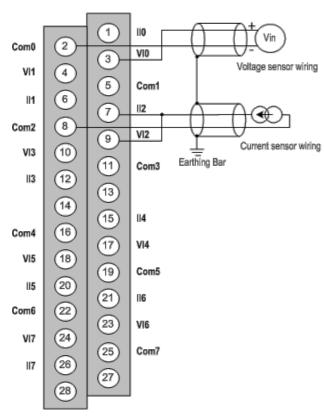




- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

Wiring Diagram



VIx + pole input for channel x

COM x- pole input for channel x

IIx current reading resistor + input

Channelvoltage sensor

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Channel2-wire current sensor

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