

Product data sheet

Specifications



safety analog input module, Modicon X80, 4 isolated inputs, 4 to 20mA

BMXSAI0410

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 4...20 mA

Complementary

Analog/digital conversion	16 bits
Analogue input resolution	13 bits 0...12500 counts
Permitted overload on inputs	25 mA 4...20 mA
Input impedance	286 Ohm
Precision of internal conversion resistor	0.1 % - 15 ppm/°C
Type of filter	Second order digital filtering
Nominal read cycle time	6 ms for 4 channels
Measurement error	$\leq 0.3\%$ of full scale 4...20 mA - 25...60 °C
Temperature drift	30 ppm/°C 4...20 mA
Recalibration	Internal
Minimum crosstalk attenuation	120 dB
Digital value format	+/- 32000 in user scale +/- 10000 by default
Isolation voltage	500 V DC between channels 1500 V DC between channels and ground 1500 V DC between channels and bus
Measurement resolution	2 μ A 4...20 mA
Maximum conversion value	0...25 mA 4...20 mA
MTBF reliability	463000 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	0.143 kg
Current consumption	200 mA at 3.3 V DC 115 mA at 24 V DC

Environment

Vibration resistance	3 gn
Shock resistance	15 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-25...60 °C
Relative humidity	5...95 % at 55 °C without condensation
IP degree of protection	IP20
Product certifications	TÜV CSA EAC RCM UL ATEX Merchant Navy
Standards	CSA C22.2 No 61010-2-201 EN/IEC 61131-2 EN/IEC 61010-2-201 UL 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 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	18.000 cm
Package 1 Length	26.000 cm
Package 1 Weight	344.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.297 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 165

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)

SCIP Number 43b0fbab-d94b-43e8-be0a-0b39cadd288b

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

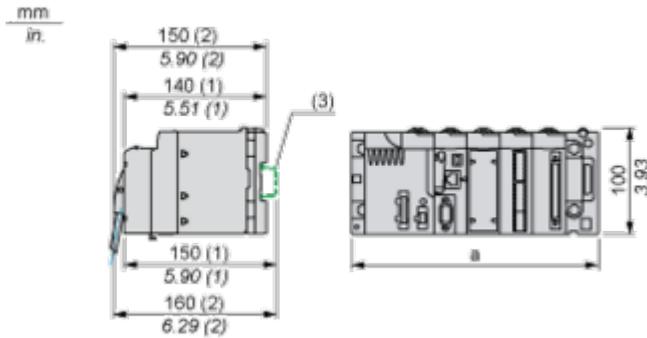
End of life manual availability [End of Life Information](#)

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

Image of product / Alternate images

Alternative





