Product datasheet

Specifications

SSI encoder interface mod - 3 ch - upto 31 data bits/1 Mbauds - severe

BMXEAE0300H

Main

Range of product	Modicon X80
Product or component type	Encoder interface module
Product specific application	For severe environments
Function available	Offset Modulo Capture Reduction Compare
Number of channels	3 SSI channel
Number of outputs	1 24 V DC reflex digital output for each SSI channel
Number of inputs	2 24 V DC capture digital inputs for the 3 SSI channels

Complementary

Data format	8...31 bits
Transmission rate	1 Mbauds 500 kbauds 200 kbauds 100 kbauds
Refresh time	1 ms
Input compatibility	24 V DC SSI absolute encoder (voltage limits: 19.2…30 V) for 200 mA per channel
Dielectric strength	1400 V DC 60 s
[Us] rated supply voltage	19.2...30 V DC, <30 mA 24 V DC, <30 mA (typical)
Protection type	Overvoltage protection DC
Current consumption	150 mA at 3.3 V DC for back plane, (typical) 250 mA at 3.3 V DC for back plane, (maximum)
Net weight	0.138 kg

Environment

Ambient air temperature for operation	-25…70 °C
Operating altitude	0...4000 m
IP degree of protection	IP20
Protective treatment	Conformal coating
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive

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Product certifications	CE
	UL
	CSA
	RCM
	EAC
	Merchant Navy
	ATEX zone 2/22
	IECEx zone 2/22
Standards	EN/IEC 61131-2
	EN/IEC 61010-2-201
	UL 61010-2-201
	CSA C22.2 No 61010-2-201
	IACS E10
	EN/IEC 61000-6-5, interface type 1 and type 2
	EN/IEC 61850-3, location G
	EN/IEC 60079-0
Environmental characteristic	Gas resistant class Gx conforming to ISA S71.04
	Gas resistant class 3C4 conforming to IEC 60721-3-3
	Dust resistant class 3S4 conforming to IEC 60721-3-3
	Sand resistant class 3S4 conforming to IEC 60721-3-3
	Salt resistant level 2 conforming to IEC 68252
	Mold growth resistant class 3B2 conforming to IEC 60721-3-3
	Fungal spore resistant class 3B2 conforming to IEC 60721-3-3
	Hazardous location class I division 2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.000 cm
Package 1 Length	12.000 cm
Package 1 Weight	182.000 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	2.730 kg

Contractual warranty

Warranty	18 months

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🔄 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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	**49**
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**

Use Again
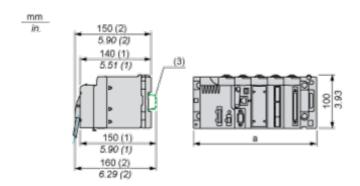
↻ Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Dimensions Drawings

Modules Mounted on Racks

Dimensions

9 Apr 2025

(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