



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)
Product 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
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 Weight	182 g
Package 1 Height	5.5 cm
Package 1 width	11 cm
Package 1 Length	12 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	3.156 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

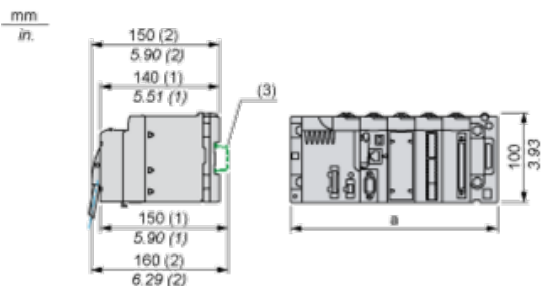
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months
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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

