

BMXEIA0100

master module, Modicon X80, upto 62 devices on discrete IO, upto 31 devices on analog IO



Main

Range of Product	Modicon X80
Product or Component Type	Master module
Actuator sensor interface profile [AS-i]	M4 master profile S7.3 slave profile S7.A.7 slave profile S7.A.A slave profile S7.A.8 slave profile S7.A.9 slave profile S6.0.X slave profile
Addressing	Standard and extended

Complementary

Cycle time	5 Ms 31 10 ms 62
Electrical connection	1 male connector SUB-D, 3 pins
Number of slave	124 discrete inputs and outputs - standard 124 analog inputs and outputs - standard 496 discrete inputs and outputs - extended 124 analog inputs and outputs - extended
Maximum cable distance between devices	328.08 Ft (100 m) 656.17 Ft (200 m) line extension 984.25 Ft (300 m) 2 repeaters 1640.42 ft (500 m) 2 repeaters and the master at the middle
Local signalling	For module active (RUN) 1 LED (green) For module error (ERR) 1 LED (red) For displays the group of 31 slaves (A/B) 1 LED (green) For I/O module fault (I/O) 1 LED (red) For diagnostics of the AS-Interface and each slave 32 LEDs For ASI power 1 LED (green) For fault 1 LED (red)
Current consumption	160 mA 3.3 V DC
Module format	Standard
Net Weight	0.75 lb(US) (0.34 kg)

Environment

Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy[RETURN]ATEX zone 2/22[RETURN]IECEEx 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	Hazardous location
Environmental characteristic	Hazardous location class I division 2
Ambient Air Temperature for Operation	32...140 °F (0...60 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
IP Degree of Protection	IP20

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Ordering and shipping details

Category	18160-MODICON M340
Discount Schedule	PC34
GTIN	3595864038032
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.91 in (7.4 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	5.00 in (12.7 cm)
Package 1 Weight	7.41 oz (210.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	7.05 lb(US) (3.2 kg)

Offer Sustainability

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
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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.

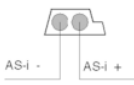

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connection to AS-Interface Bus

AS-Interface Bus Cables

AS-Interface bus cables carry the signals and supply the sensors and actuators connected to the bus with 30 V_{DC}.

Types of AS-Interface cables:

Cable Type	Specifications	Illustration
Flat, polarized AS-Interface ribbon cable	Color: yellow. Wire cross-section: 1.5 mm ² (AWG 15)	
Standard round cable	Wire cross-section: 1.5 mm ² (AWG 15) or 2.5 mm ² (AWG 13)	

Wire colors:

- AS-i - is Blue
- AS-i + is Brown

Recommended cable: Product reference H05VVF 2x1.5mm² (AWG 15) flat cable conforms to the DIN VDE 0281 standard.

Connector

A connector-cover set is used to connect the module to the AS-Interface bus. This connector must be linked to the cable of the AS-Interface bus and assembled according to the procedure described in the user guide.