

BMXEIA0100

Master module - upto 62 devices on discrete I/O -
upto 31 devices on analog I/O



Main

Range of product	Modicon M340 automation platform
Product or component type	Master module
Actuator sensor interface profile [AS-i]	M4 (master profile) 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 (slave profile)
Addressing	Standard and extended

Complementary

Cycle time	5 ms for 31 5 ms for 31 10 ms for 62
Electrical connection	1 male connector SUB-D 3 pins
Number of slave	124 slave(s) for discrete inputs and outputs - standard 124 slave(s) for analog inputs and outputs - standard 496 slave(s) for discrete inputs and outputs - extended 124 slave(s) for analog inputs and outputs - extended
Cable distance between devices	<= 100 m <= 200 m line extension <= 300 m 2 repeaters <= 500 m 2 repeaters and the master at the middle
Local signalling	1 LED for fault 1 LED green for module active (RUN) 1 LED green for module active (RUN) 1 LED red for module error (ERR) 1 LED green for displays the group of 31 slaves (A/B) 1 LED red for I/O module fault (I/O) 32 LEDs for diagnostics of the AS-Interface and each slave 1 LED green for external power supply present 1 LED red for line fault 1 LED for ASI power
Current consumption	160 mA at 3.3 V DC
Module format	Standard
Product weight	0.34 kg

Environment

directives	2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
product certifications	AS-Interface No 86601
standards	EN 61000-6-2 EN 61000-6-4 EN 61131-2 EN 61010-2-201
ambient air temperature for operation	0...60 °C
ambient air temperature for storage	-40...70 °C
IP degree of protection	IP20

Offer Sustainability

Sustainable offer status	Green Premium product
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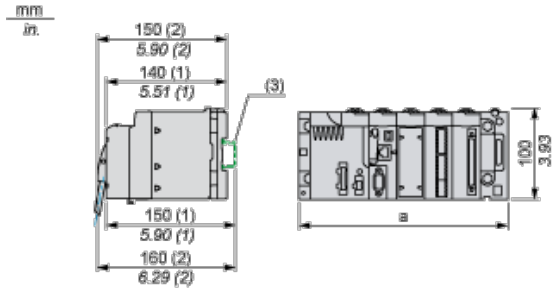
RoHS (date code: YYWW)	Compliant - since 0901 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	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.