



## 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 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
Maximum 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 (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 ASI power 1 LED (red) for fault
Current consumption	160 mA at 3.3 V DC
Module format	Standard
Net weight	0.34 kg

## Environment

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	Hazardous location
Environmental characteristic	Hazardous location class I division 2
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...70 °C
IP degree of protection	IP20

## Packing Units

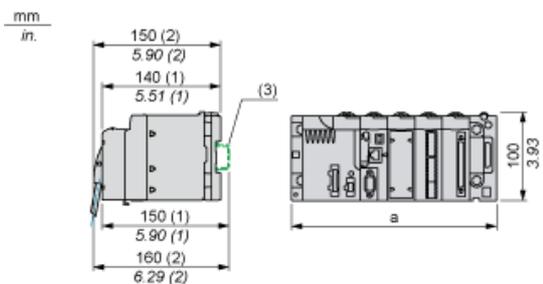
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	155 g
Package 1 Height	6 cm
Package 1 width	11 cm
Package 1 Length	12 cm

## 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.

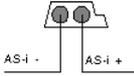
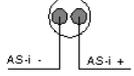
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

## 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<sub>DC</sub>.

Types of AS-Interface cables:

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

Wire colors:

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

Recommended cable: Product reference H05VVF 2x1.5mm<sup>2</sup> (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.