Product data sheet

Specifications

discrete mixed IO module, Modicon X80, 8 inputs, 8 outputs, 24V DC positive

BMXDDM16022

Main

Range of product	Modicon X80
Product or component type	Discrete I/O module
Discrete input number	8
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC, discrete input logic: positive
Discrete input current	3.5 mA
Discrete output number	8
Discrete output type	Solid state
Discrete output voltage	24 V 19...30 V DC
Discrete output current	0.5 A

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 type 3
Sensor power supply	19...30 V
Current state 1 guaranteed	>= 3 mA
Current state 0 guaranteed	<= 1.5 mA
Current per channel	0.625 A
Maximum current per module	5 A
Maximum leakage current	0.5 mA at state 0
Maximum voltage drop	<1.2 V at state 1
Input impedance	6800 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	3.7 W
DC typical response time	4 ms
DC maximum response time	7 ms
Response time on output	1.2 ms
Paralleling of outputs	Yes : 2 maximum
Typical current consumption	79 mA at 3.3 V DC 59 mA at 24 V DC
Current consumption	<= 111 mA at 3.3 V DC <= 67 mA at 24 V DC
MTBF reliability	450000 H

Protection type	1 external fuse per group of input channel0.5 A fast blow overvoltage protection on output reverse polarity protection on input reverse polarity protection on output
Output overload protection	With current limiter With electronic circuit breaker 1.5 In < Id < 2 In
Output overvoltage protection	With transil diode
Output short-circuit protection	With 2 A external fuse
Reverse polarity protection	Reverse mounted diode
Voltage detection threshold	< 14 V DC preactuator fault < 14 V DC sensor fault > 18 V DC preactuator OK > 18 V DC sensor OK
Maximum tungsten load	6 W
Switching frequency	0.5/LI² Hz
Maximum overload time	15 ms
Load impedance ohmic	>= 48 Ohm
Status LED	1 LED (green) module operating (RUN) 1 LED per channel (green) channel diagnostic 1 LED (red) module error (ERR) 1 LED (red) module I/O
Net weight	0.115 kg

Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, output/ground 1500 V AC at 50/60 Hz 1 minute, output/internal logic 1500 V AC at 50/60 Hz 1 minute, primary/secondary 500 V DC 1 minute, between group of inputs and outputs
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	0…60 °C
Relative humidity	5…95 % at 55 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating factor

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	11.700 cm
Package 1 Weight	142.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15

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Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.490 kg

Contractual warranty

Warranty	18 months

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

Total lifecycle Carbon footprint	**32**
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)**
SCIP Number	**59505052-8ead-46e6-bc82-9cffb526d03c**
REACh Regulation	**REACh Declaration**
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**

Use Again

Repack and remanufacture

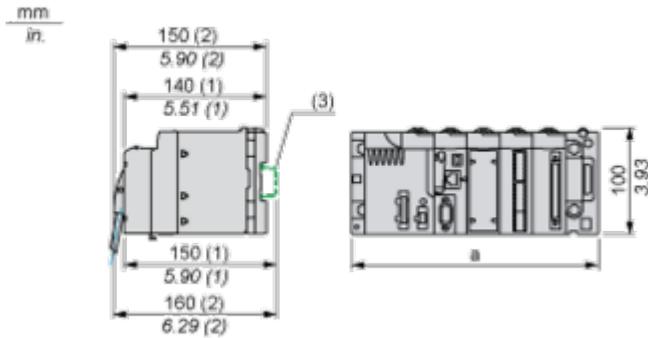|	
End of life manual availability	**End of Life Information**
Take-back	**No**

Dimensions Drawings

Modules Mounted on Racks

Dimensions

(1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
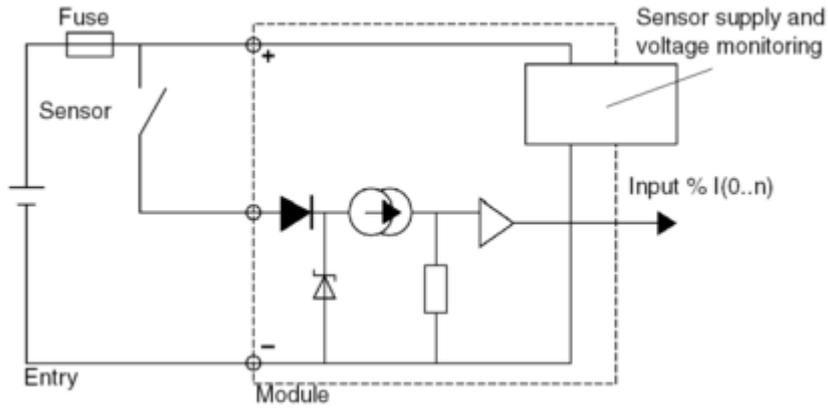**(3)** On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

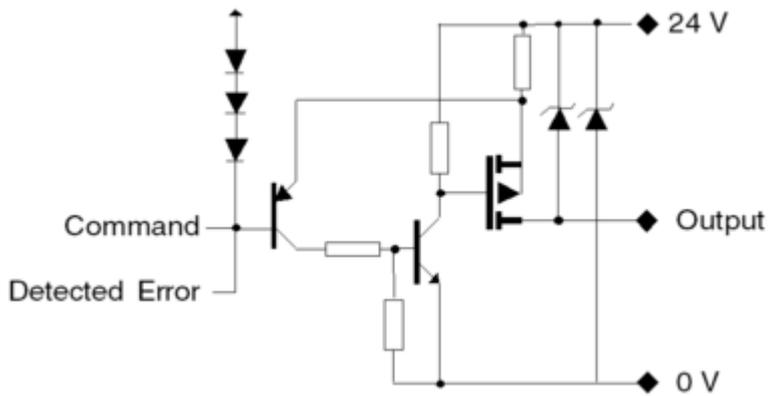| Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema
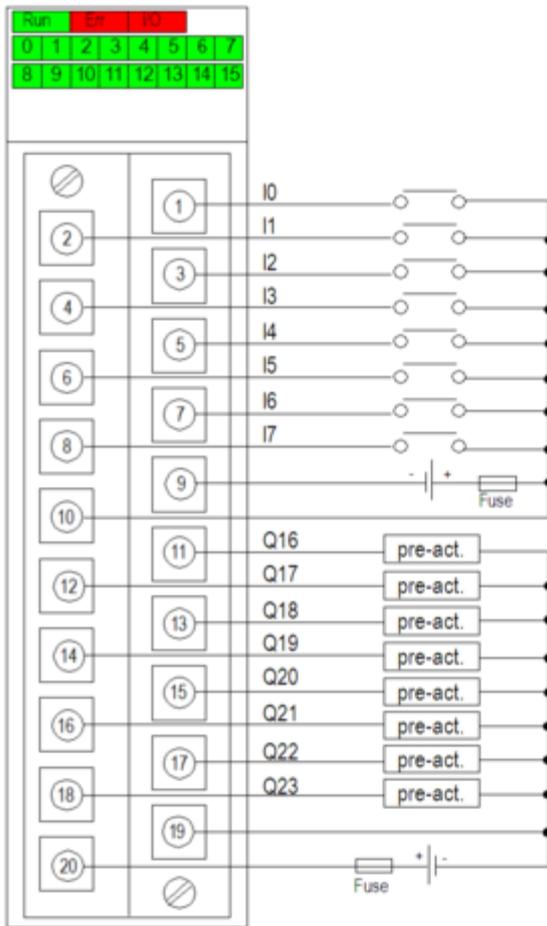
Connecting the Module

Input Circuit Diagram

Output Circuit Diagram

Module Connection

power supply 24 VDC
input fuse fast blow fuse of 0.5 A
output fuse fast blow fuse of 6.3 A
pre-act pre-actuator

Image of product / Alternate images

Alternative