

Product data sheet

Specifications



discrete input module, Modicon X80,
16 inputs, 24V AC or DC, positive or
negative

BMXDAI1602

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Resistive
Discrete input voltage	24 V DC, discrete input logic: positive or negative 24 V AC
Discrete input current	3 mA at 24 V AC 3.9 mA at 24 V DC

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors AC conforming to IEC 61131-2 Type 1
Network frequency	50/60 Hz
Network frequency limits	47...63 Hz
Sensor power supply	20...26 V AC 19...30 V DC
Current state 1 guaranteed	≥ 2 mA AC ≥ 2 mA DC
Current state 0 guaranteed	≤ 1 mA AC ≤ 0.5 mA DC
Input impedance	6 kOhm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	3 W
AC activation response time	15 ms
AC deactivation response time	20 ms
Paralleling of inputs	No
Typical current consumption	76 mA at 3.3 V DC
MTBF reliability	1125000 H
Protection type	1 external fuse per group of channel 0.5 A fast blow
Voltage detection threshold	< 14 V AC/DC sensor fault > 18 V AC/DC sensor OK
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

Disclaimer: 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

Net weight	0.115 kg
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Environment

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

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	5.500 cm
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Package 1 Width	11.800 cm
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Package 1 Length	12.500 cm
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Package 1 Weight	137.000 g
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Unit Type of Package 2	S02
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Number of Units in Package 2	15
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Package 2 Height	15.000 cm
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Package 2 Width	30.000 cm
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Package 2 Length	40.000 cm
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Package 2 Weight	2.374 kg
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Contractual warranty

Warranty	18 months
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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 **31**

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)**

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.

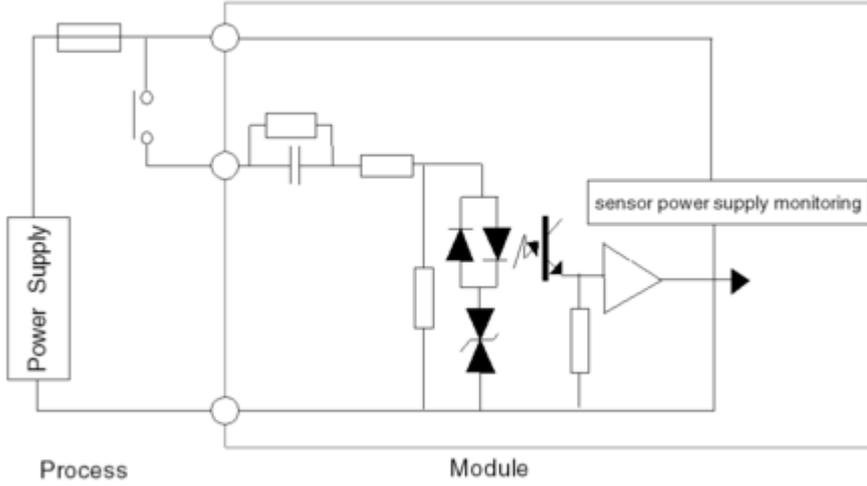
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

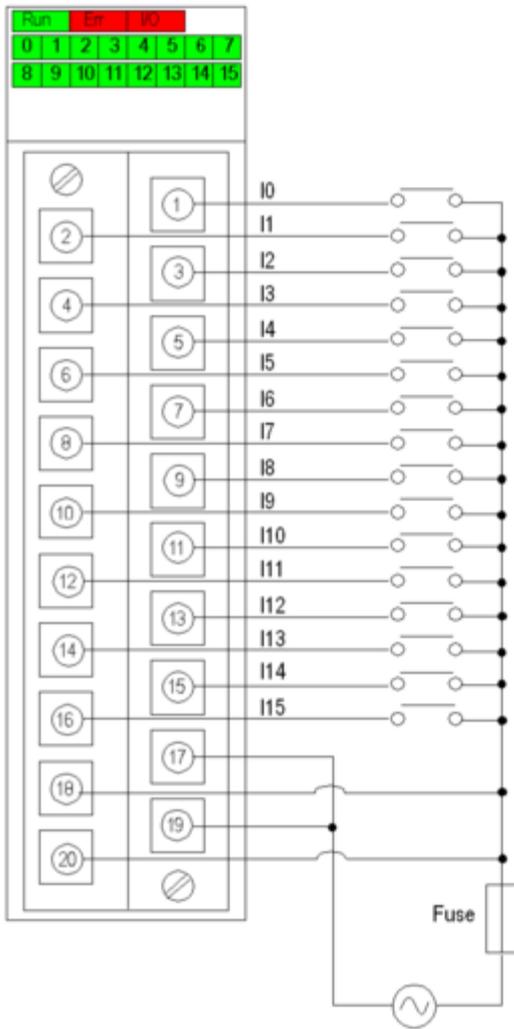
Connections and Schema

Connecting the Module

Input Circuit Diagram

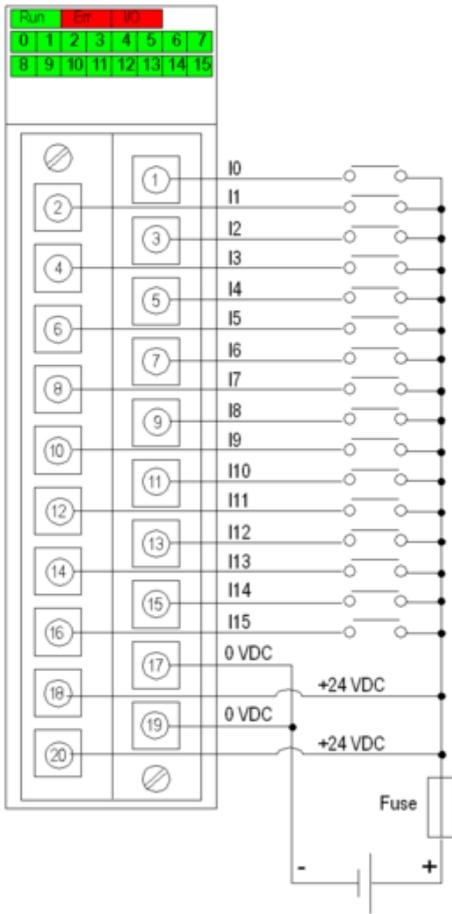


Module Connection (AC Power Supply)

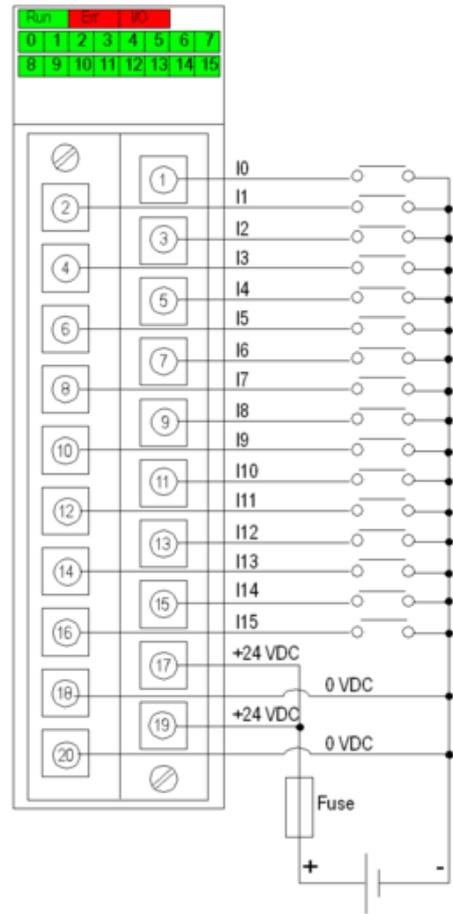


power supply 24 VAC
fuse fast blow fuse of 0.5 A

Module Connection (DC Power Supply)



Positive Logic Wiring



Negative Logic Wiring

power supply 24 VDC
fuse fast blow fuse of 0.5 A

Image of product / Alternate images

Alternative



