

Product data sheet

Specifications



discrete input module, Modicon X80, 32 inputs, 48V DC positive

BMXDDI3203

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon X80
Product or Component Type	Discrete input module
Discrete input number	32
Discrete input voltage	48 V DCisolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	32 isolated conforming to IEC 61131-2 type 3 at 48 V DC
Input wiring mode	2 or 3 wires
Discrete input current	2.3 mA at 48 V DC
Voltage state 1 guaranteed	> 30 V
Voltage state 0 guaranteed	<= 10 V
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1.5 mA
Input impedance	20960 Ohm
Input protection type	Reverse polarity protection
Insulation resistance	> 10 MOhm 500 V DC
DC typical response time	4 ms
DC maximum response time	7 ms
Paralleling of outputs	Yes
Sensor power supply	38...60 V
Typical current consumption	100 mA DC 110 mA 24 V DC
Current consumption	130 mA 3.3 V DC 125 mA 24 V DC
Power dissipation in W	6 W
Isolation between channels and bus	1500 V for 1 minute
MTBF reliability	2500000 H
Voltage detection threshold	< 24 V DC sensor fault > 36 V DC sensor OK
Local signalling	1 LED (green) for module operating (RUN) 1 LED per channel (green) for channel diagnostic 1 LED (red) for module error (ERR) 1 LED (red) for module I/O

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Height	5.3 in (134.6 mm)
Width	1.3 in (32 mm)
Depth	3.4 in (86 mm)
Product Weight	0.302 lb(US) (0.137 kg)

Environment

IP Degree of Protection	IP20
Protective treatment	Standard version
Marking	CE UKCA CULus RCM EAC
Standards	IEC 61131-2
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC 50/60 Hz 1 minute, primary/secondary 1500 V AC 50/60 Hz 1 minute, between group of channels
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Relative humidity	5...95 % -13...158 °F (-25...70 °C) without condensation
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating
Pollution degree	2
Vibration resistance	3 gn
Shock resistance	30 gn

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606481946713
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.126 in (5.400 cm)
Package 1 Width	7.087 in (18.000 cm)
Package 1 Length	10.236 in (26.000 cm)
Package weight(Lbs)	10.864 oz (308.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)

Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	8.091 lb(US) (3.670 kg)

Contractual warranty

Warranty (in months)	18
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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	32 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	14 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	43b0fbab-d94b-43e8-be0a-0b39cadd288b
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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 Longer

 Lifetime extension	
Repair	No

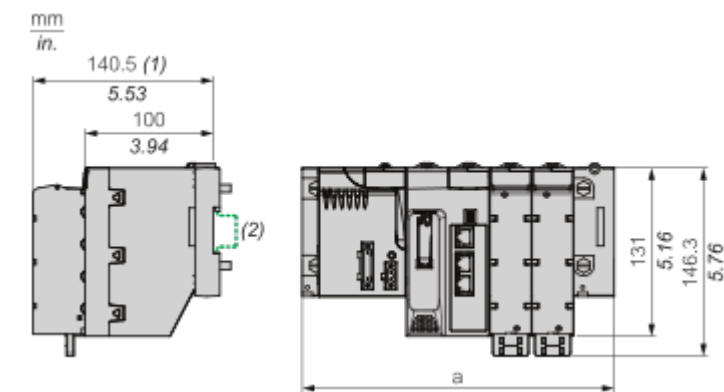
Use Again

 Repack and remanufacture	
Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Modules Mounted on Racks

Dimensions



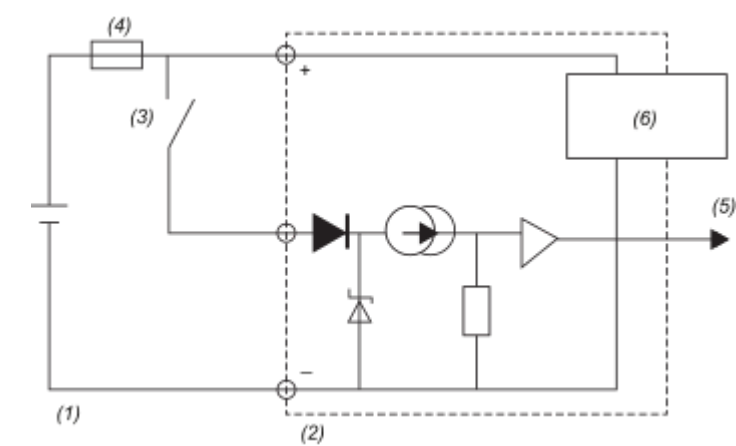
- (1) With removable terminal block (cage, screw or spring).
(2) On AM1 ED rail: 35 mm wide, 15 mm deep.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	9.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200and BMXXBP1200H	503.2	19.81
BMEXBP0400 and BMEXBP0400H	242.4	9.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81
BMEXBP0602 and BMEXBP0602H	375.8	14.8
BMEXBP1002 and BMEXBP1002H	506.2	19.93

Connections and Schema

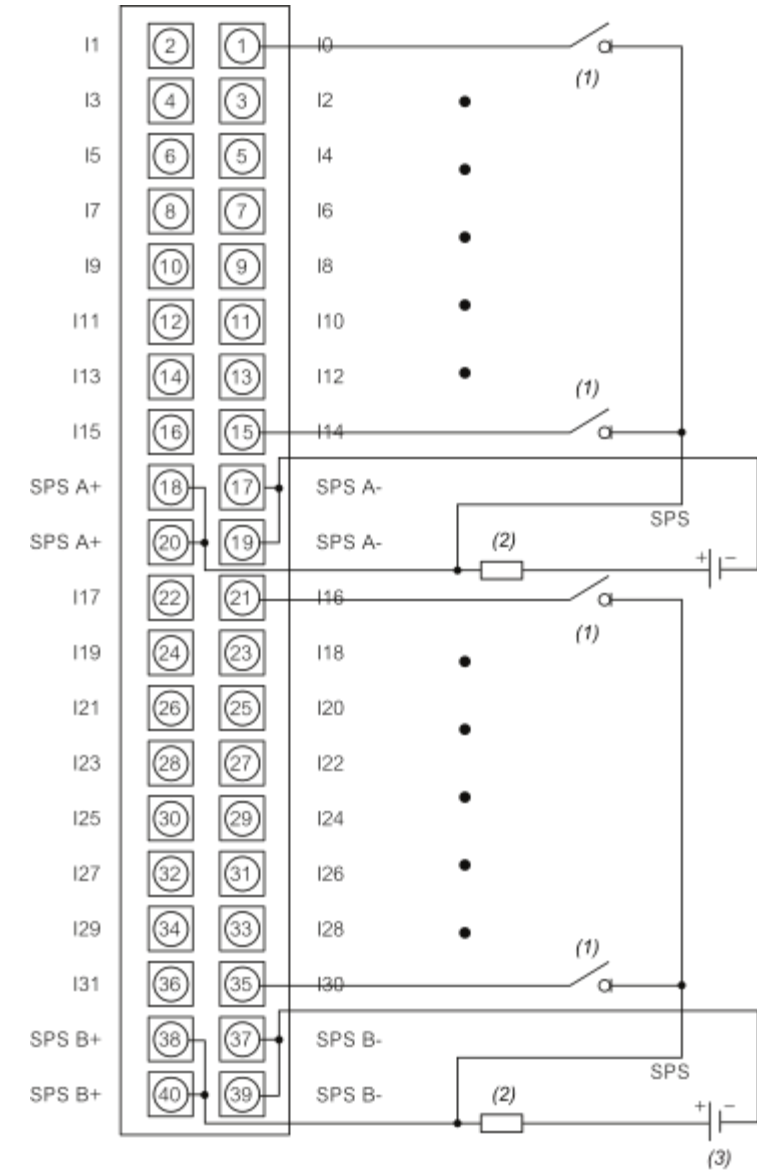
Connecting the Module

Input Circuit Diagram



- (1) Entry
- (2) Module
- (3) Sensor
- (4) Fuse
- (5) Input % I(0...n)
- (6) Sensor supply and voltage monitoring

Module Connection



- (1) Sensor
 - (2) Fuse : fast-blow fuse of 0.5A
 - (3) 48 VDC
- SPS: Sensor power supply

Image of product / Alternate images

Alternative

