Product data sheet

Specifications

discrete input module, Modicon X80, 32 inputs, 12 or 24V DC positive or negative

BMXDDI3232

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 type	Isolated
Input type	Current sink (logic positive) Current source (logic negative)
Discrete input voltage	12 V DC positive or negative 24 V DC positive or negative
Discrete input current	3.3 mA

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors IEC 61131-2 type 3
Sensor power supply	19...30 V
Voltage state 1 guaranteed	>= 10 V <= -10 V
Current state 1 guaranteed	>= 2 mA
Voltage state 0 guaranteed	<= 5 V >= -5 V
Current state 0 guaranteed	<= 1.5 mA
Input impedance	7270 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	4.7 W
DC typical response time	4 ms
DC maximum response time	7 ms
Paralleling of outputs	Yes
Typical current consumption	100 mA 3.3 V DC
MTBF reliability	2200000 H
Protection type	1 external fuse per group of channel 0.5 A fast blow
Voltage detection threshold	< 14 V DC sensor fault > 19 V 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
Net Weight	0.302 lb(US) (0.137 kg)

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

Environment

IP Degree of Protection	IP20
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
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Relative humidity	5…95 % -13…158 °F (-25…70 °C) without condensation
Protective treatment	Standard version
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606481946706
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.205 in (5.600 cm)
Package 1 Width	7.165 in (18.200 cm)
Package 1 Length	10.157 in (25.800 cm)
Package weight(Lbs)	10.794 oz (306.000 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	8.378 lb(US) (3.800 kg)

Contractual warranty

Warranty (in months)	18

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	**33 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**
Carbon footprint of the manufacturing phase [A1 to A3]	**18 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.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
SCIP Number	**43b0fbab-d94b-43e8-be0a-0b39cadd288b**
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 Longer

Lifetime extension

Repair	**No**

Use Again

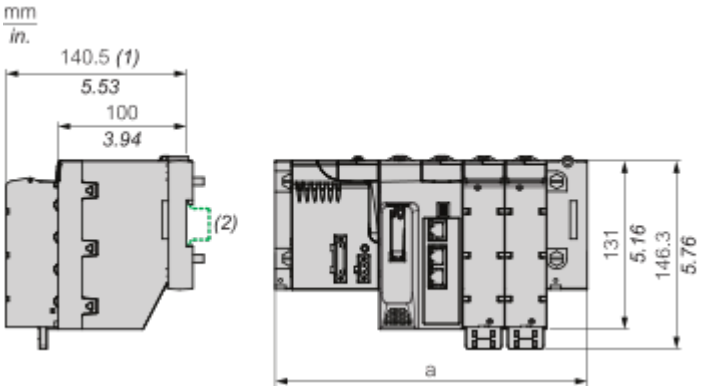
Repack and remanufacture

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

Dimensions Drawings

Modules Mounted on Racks

Dimensions



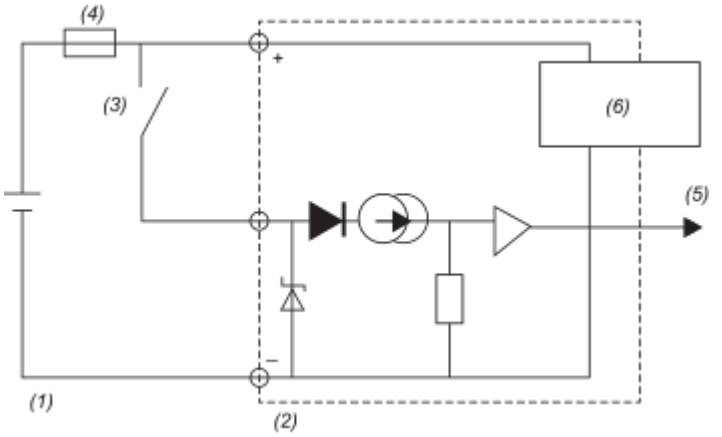
(1) With removable terminal block (cage, screw or spring).
(2) On AM1 ED rail: 35 mm wide, 15 mm deep.

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

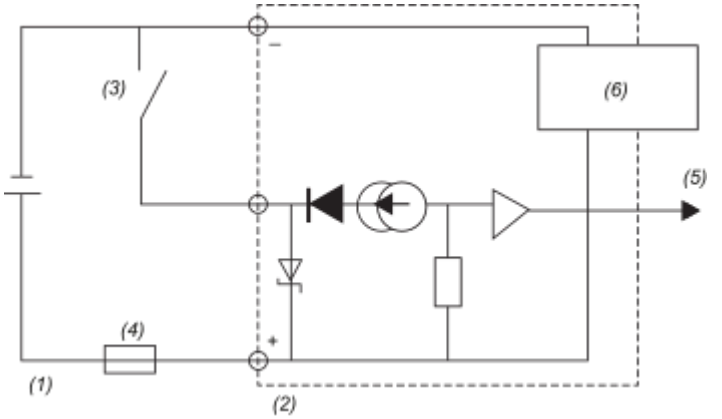
Connections and Schema

Connecting the Module

Input Circuit Diagram

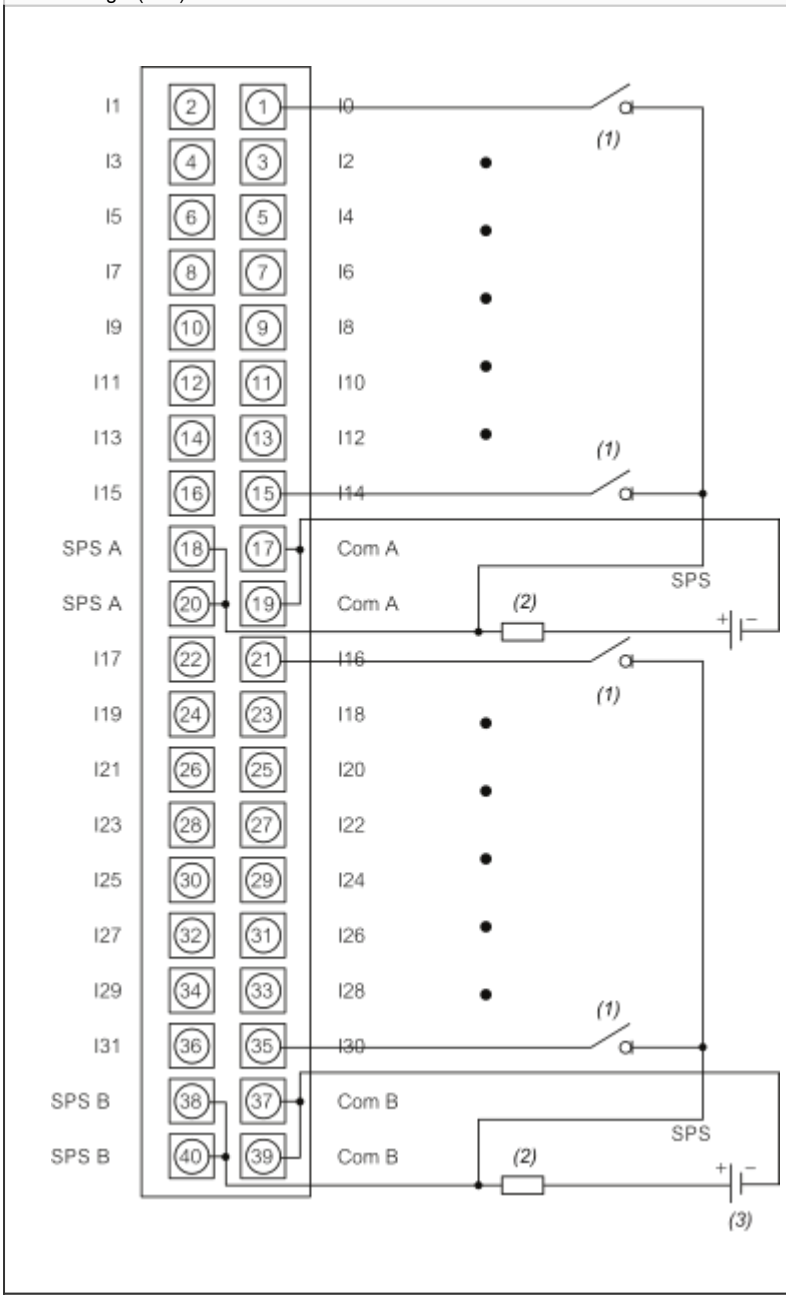
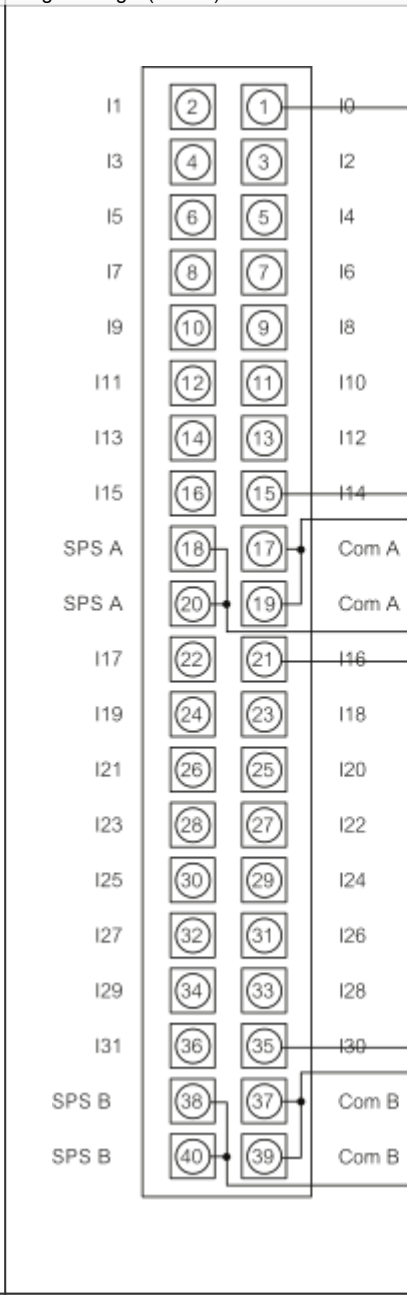


The following diagram shows the circuit of a direct current input (negative logic).



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

Module Connection

Positive logic (sink)	Negative logic (source)
	

(1) Sensor
(2) Fuse : fast-blow fuse of 0.5A
(3) 12 VDC/24 VDC
SPS: Sensor power supply

Image of product / Alternate images

Alternative

SN:XXXXXXXXXXX
PV:XX
RL:XX