

Discrete input module, Modicon X80, 32 inputs, 12/24V DC positive or negative, for severe environments

BMXDDI3232H

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Product specific application	For severe environments
Discrete input number	32
Discrete input type	Isolated
Input type	Current sink (logic positive) Current source (logic negative)
Discrete input voltage	12 V DC, discrete input logic: positive or negative 24 V DC, discrete input logic: positive or negative
Discrete input current	3.3 mA

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 type 3	
Sensor power supply	1930 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 at 3.3 V DC	
MTBF reliability	2200000 H	
Protection type	1 external fuse per group of channel0.5 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 0.138 kg

Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive
	2014/30/EU - electromagnetic compatibility
Environmental characteristic	Gas resistant class Gx
	Gas resistant class 3C4
	Dust resistant class 3S4
	Sand resistant class 3S4
	Salt resistant level 2
	Mold growth resistant class 3B2
	Fungal spore resistant class 3B2
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary
	1500 V AC at 50/60 Hz 1 minute, between group of channels
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-2570 °C
Relative humidity	595 % at -2570 °C without condensation
Protective treatment	Conformal coating
Operating altitude	02000 m
	20005000 m with derating factor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.600 cm
Package 1 Width	18.000 cm
Package 1 Length	25.800 cm
Package 1 Weight	317.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	30.000 cm
Package 2 Height Package 2 Width	30.000 cm 30.000 cm

Contractual warranty

Warranty 18 months



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
Environmental Disclosure	Product Environmental Profile

Use Better

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	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 Again

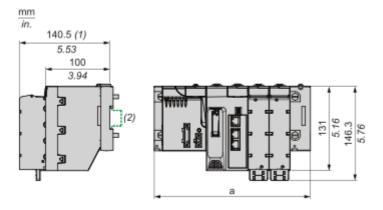
○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

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Dimensions Drawings

Modules Mounted on Racks

Dimensions



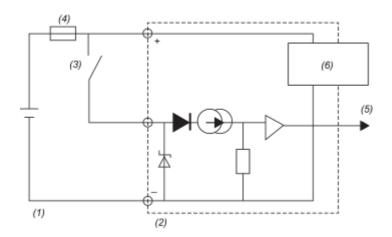
(1) With removable terminal block (cage, screw or spring).(2) On AM1 ED rail: 35 mm wide, 15 mm deep.

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

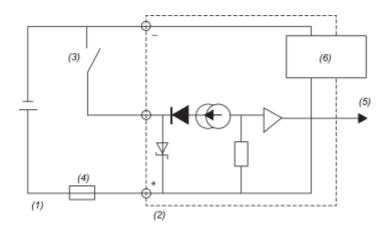
Connections and Schema

Connecting the Module

Input Circuit Diagram



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

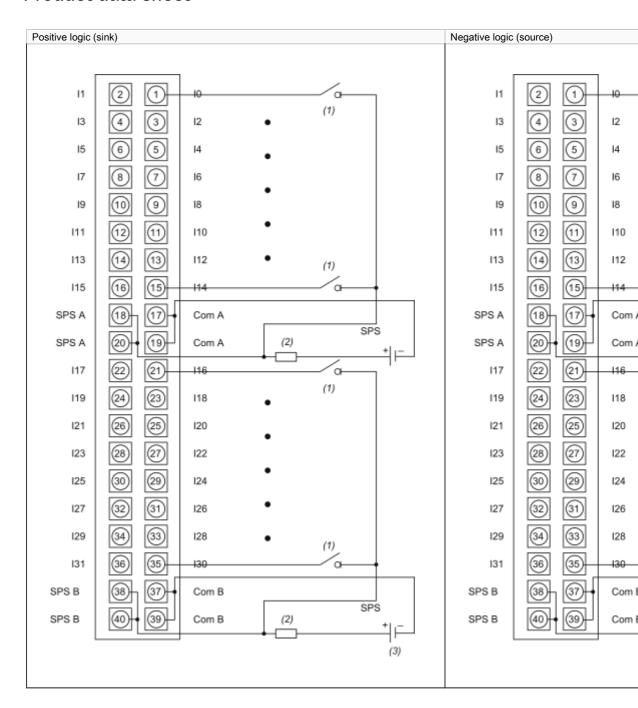


- (1) Entry
- (2) Module
- (3) Sensor
- (4) Fuse
- (5) Input % I(0...n)(6) Sensor supply and voltage monitoring

Module Connection

Product data sheet

BMXDDI3232H



(1) Sensor

(2) Fuse: fast-blow fuse of 0.5A

(3) 12 VDC/24 VDC SPS: Sensor power supply

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Image of product / Alternate images

Alternative





