

Product datasheet

Specifications



discrete input module X80 - 32 inputs - 24 V DC positive

Local distributor code:

389737285

BMXDDI3202K

EAN Code: 3595863910018

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	32
Discrete input voltage	24 V DC for isolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	32 isolated conforming to IEC 60947-5-2 at 24 V DC 32 isolated conforming to IEC 61131-2 type 3 at 24 V DC
Input wiring mode	2 or 3 wires
Discrete input current	2.5 mA at 24 V DC
Voltage state 1 guaranteed	≥ 11 V
Voltage state 0 guaranteed	< 5 V
Current state 1 guaranteed	≥ 2 mA
Current state 0 guaranteed	≤ 0.5 mA
Input impedance	9600 Ohm
Paralleling of inputs	No
Insulation resistance	> 10 MOhm 500 V DC
DC typical response time	4 ms
DC maximum response time	7 ms
Sensor power supply	: 19...30 V
Typical current consumption	121 mA DC
Current consumption	160 mA at 3.3 V DC
Power dissipation in W	3.9 W
Isolation between channels and bus	1500 V for 1 minute
Hot swapping fallback	Yes
MTBF reliability	905000 H
Voltage detection threshold	< 14 V DC sensor fault > 18 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
Height	134.6 mm

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

Width	32 mm
Depth	86 mm
Product weight	0.112 kg

Environment

IP degree of protection	IP20
Protective treatment	Standard version
Marking	CE UKCA CULus RCM EAC
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary 500 V DC 1 minute, between group of channels
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	5...95 % at 55 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating
Pollution degree	2
Vibration resistance	3 gn
Shock resistance	30 gn

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.200 cm
Package 1 Width	11.000 cm
Package 1 Length	11.500 cm
Package 1 Weight	143.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.486 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	49.776 kg

Logistical informations

Country of origin	ID
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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	41 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	20 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	21 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 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	Ff2a0a17-800d-4c82-9983-c10cf1a6b7a2
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again



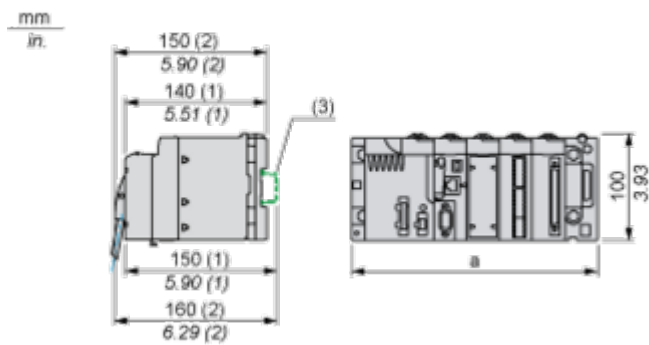
Repack and remanufacture

Recyclability potential, in %	3
End of life manual availability	End of Life Information
Take-back	No

Dimensions Drawings

Modules Mounted on Racks

Dimensions



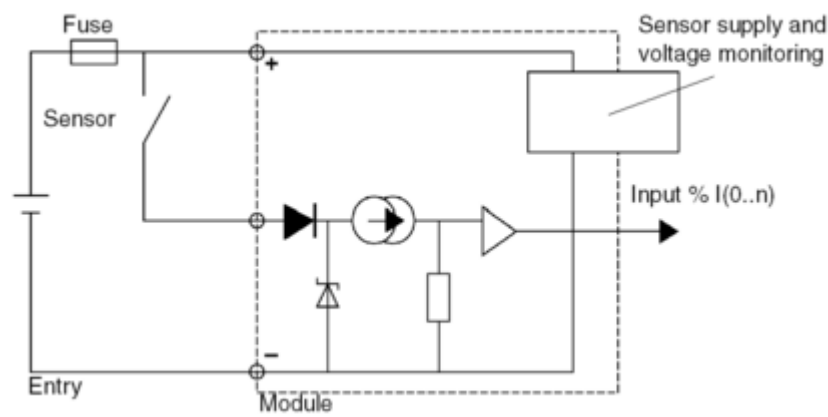
- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

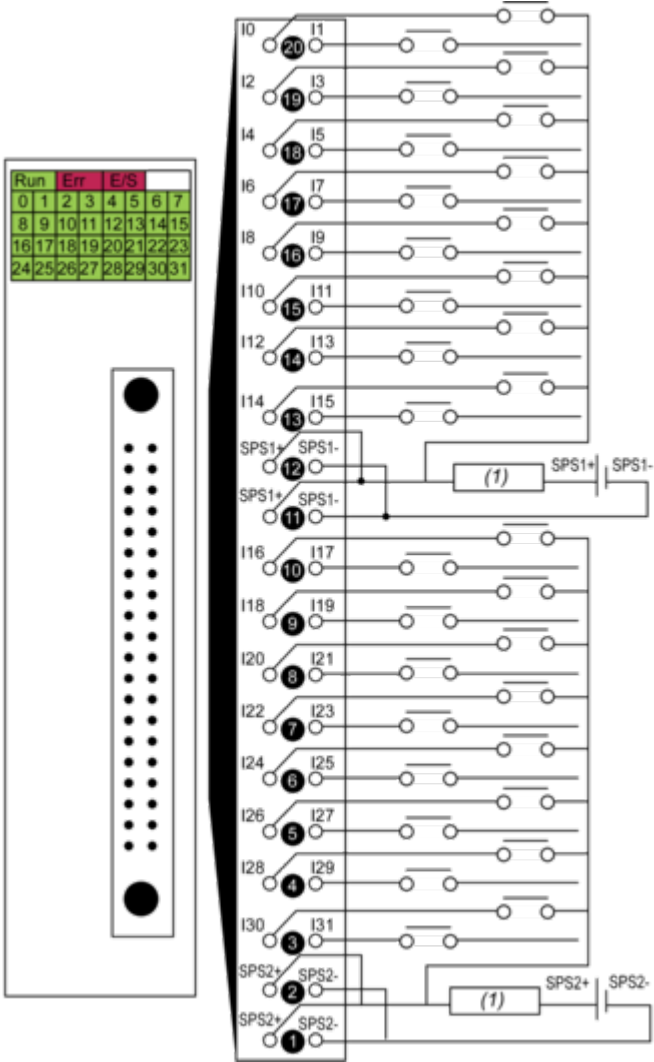
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



(1) fuse: fast blow fuse of 0.5 A for each 16-channel group

power supply 24 VDC
SPS sensor power supply

Image of product / Alternate images

Alternative





