Product data sheet

Specifications



safety discrete input module, Modicon X80, 16 inputs, 24V DC positive

BMXSDI1602

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon X80
Product or Component Type	Discrete input module
Device Application	Industrial Application
Discrete input number	16
Discrete input voltage	24 V DCnot isolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	16 not isolated conforming to IEC 60947-5-2 at 24 V DC
Input wiring mode	2 or 3 wires
Discrete input current	3.2 mA at 24 V DC
Input impedance	7500 Ohm
Paralleling of inputs	Yes
Input protection type	Reverse polarity protection
Insulation resistance	> 10 MOhm 500 V DC
DC typical response time	6 ms
DC maximum response time	6 ms
Sensor power supply	19…30 V
Typical current consumption	256 mA DC 100 mA 24 V DC
Power dissipation in W	3.57 W
Isolation between channels and bus	1500 V for 1 minute
MTBF reliability	265000 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	5.3 in (134.6 mm)
Width	1.3 in (32 mm)
Depth	3.4 in (86 mm)
Product Weight	0.254 lb(US) (0.115 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
Protective treatment	Conformal coating
Dielectric strength	1500 V AC 50/60 Hz 1 minute, primary/secondary
Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Relative humidity	5…95 % 131 °F (55 °C) without condensation
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating
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

Ordering and shipping details

Category	US1PC3418161
Discount Schedule	PC34
GTIN	3606481204912
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	7.087 in (18.000 cm)
Package 1 Length	10.236 in (26.000 cm)
Package weight(Lbs)	11.922 oz (338.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
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	7.385 lb(US) (3.350 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	64
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	72.753 lb(US) (33.000 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	**171 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**19 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]	**151 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

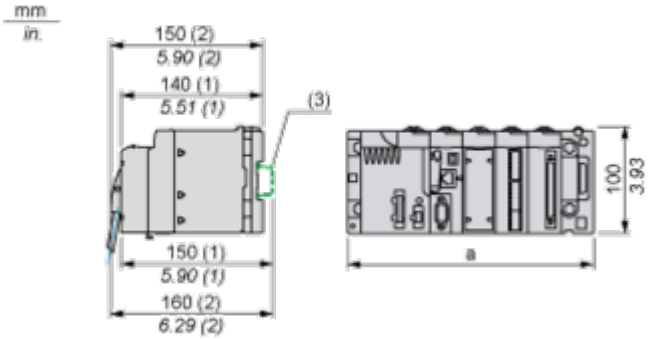
Repack and remanufacture

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

Dimensions Drawings

Modules Mounted on Racks

Dimensions



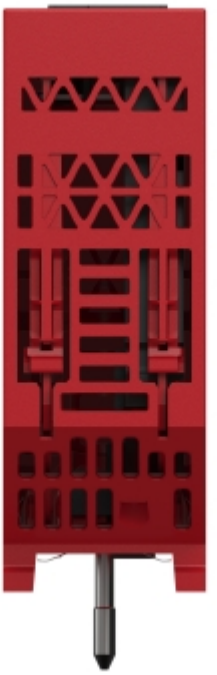
(1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

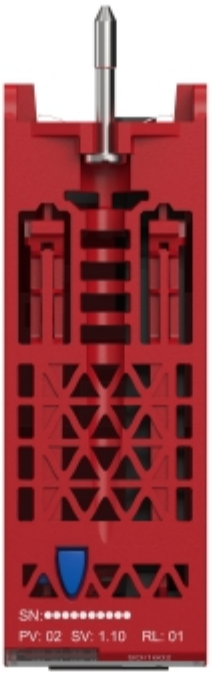
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Image of product / Alternate images

Alternative






SN:
PV: 02 SV: 1.10 RL: 01

