

Product datasheet

Specifications



discrete input module X80 - 16 inputs - 100..120 V AC

Local distributor code:

389737272

BMXDAI1604

EAN Code: 3595863909999

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Device application	Industrial application
Discrete input number	16
Discrete input voltage	100...120 V AC for isolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	16 isolated conforming to IEC 60947-5-2 at 100...120 V AC 16 isolated conforming to IEC 61131-2 type 3 at 100...120 V AC
Input wiring mode	2 or 3 wires
Discrete input current	5 mA at 100...120 V AC
Voltage state 1 guaranteed	>= 74 V
Voltage state 0 guaranteed	<= 20 V
Current state 1 guaranteed	>= 2.5 mA
Current state 0 guaranteed	<= 1 mA
Discrete input frequency	50 Hz (47...63 Hz) 60 Hz (47...63 Hz)
Input impedance	13000 Ohm
Insulation resistance	> 10 MOhm 500 V DC
AC activation response time	10 ms
AC deactivation response time	20 ms
Sensor power supply	: 85...132 V
Typical current consumption	76 mA DC
Current consumption	<= 107 mA at 3.3 V DC
Power dissipation in W	3.8 W
Isolation between channels and bus	1500 V for 1 minute
MTBF reliability	1120000 H
Voltage detection threshold	< 40 V AC sensor fault > 82 V AC 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

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	103.7 mm
Width	32 mm
Depth	86 mm
Product weight	0.115 kg

Environment

IP degree of protection	IP20
Protective treatment	Standard version
Marking	CE UKCA CULus EAC RCM
Standards	IEC 61131-2
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC at 50/60 Hz 1 min
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	5.700 cm
Package 1 Width	11.400 cm
Package 1 Length	12.000 cm
Package 1 Weight	148.000 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	2.525 kg

Logistical informations

Country of origin	FR
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Contractual warranty



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]	19 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]	13 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
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer

Lifetime extension	
Repair	No

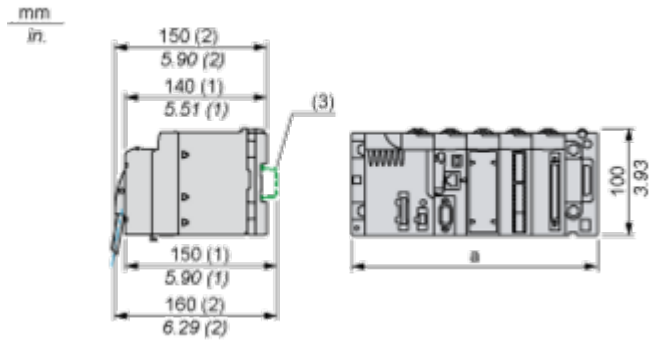
Use Again

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



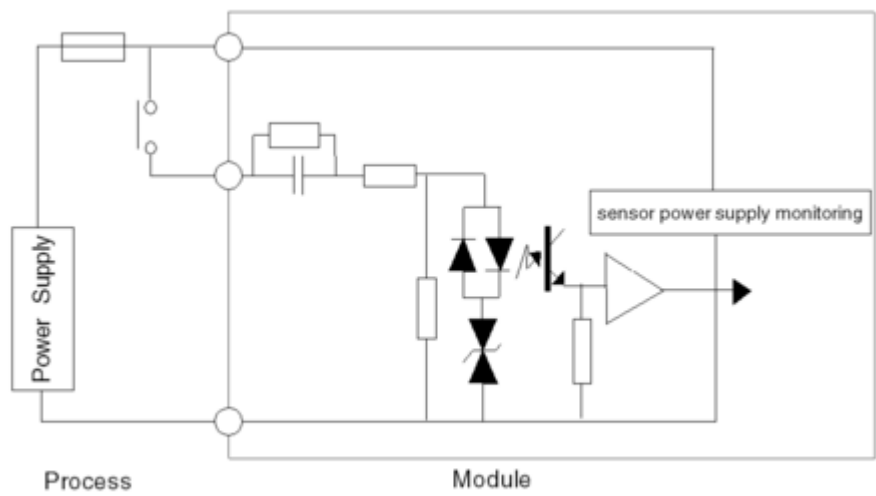
- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

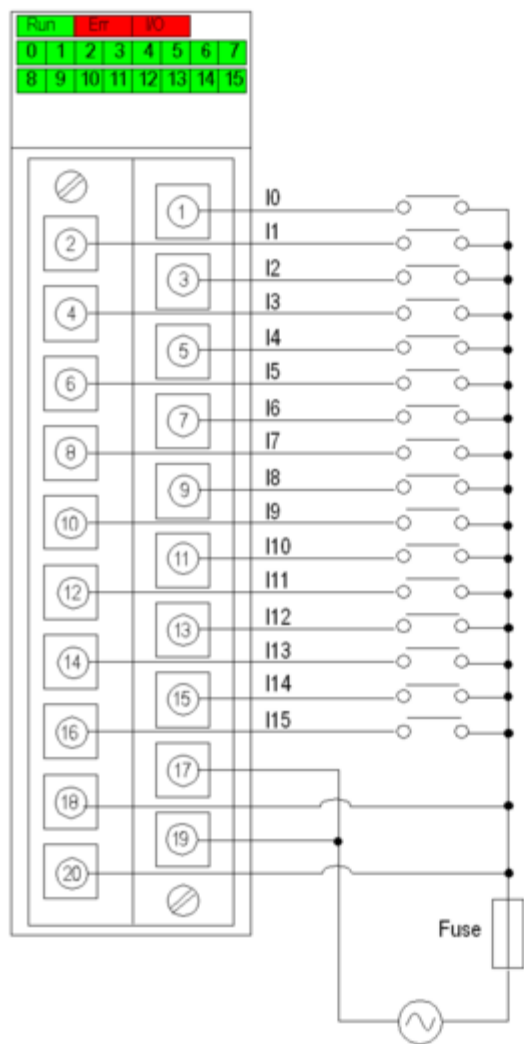
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



power supply 100...120 VAC
fuse fast blow fuse of 0.5 A

Image of product / Alternate images

Alternative

