# **Product datasheet**

Specification





# discrete input module X80 - 8 inputs - 200...240 V AC

BMXDAI0805

## Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	8
Discrete input type	Isolated
input type	Capacitive
Discrete input voltage	200240 V AC
Discrete input current	10.4 mA

# Complementary

Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 Type 2	
Network frequency	50/60 Hz	
network frequency limits	4763 Hz	
Sensor power supply	170264 V	
Current state 1 guaranteed	>= 6 mA	
Current state 0 guaranteed	<= 4 mA	
Input impedance	21000 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	4.73 W	
AC activation response time	10 ms	
AC deactivation response time	20 ms	
Typical current consumption	76 mA at 3.3 V DC 93.6 mA at 24 V DC	
Current consumption	<= 126 mA at 3.3 V DC <= 154.8 mA at 24 V DC	
MTBF reliability	1700000 H	
Protection type	1 external fuse per group of channel0.5 A fast blow	
Voltage detection threshold	> 164 V AC sensor OK < 80 V AC sensor fault	
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	0.12 kg	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

# **Environment**

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC at 50/60 Hz 1 min
Vibration resistance	3 gn
Shock resistance	30 gn
ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	060 °C
Relative humidity	595 % at 55 °C without condensation
Operating altitude	02000 m 20005000 m with derating factor

# **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.800 cm
Package 1 Length	11.800 cm
Package 1 Weight	156.000 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	2.700 kg

# **Contractual warranty**

Warranty 18 months



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

# Well-being performance



Mercury Free



Rohs Exemption Information

Yes

## **Certifications & Standards**

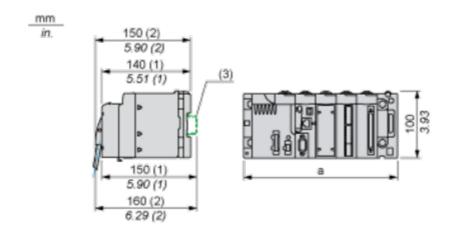
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
China Rohs Regulation	China RoHS declaration			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
Circularity Profile	End of Life Information			

## BMXDAI0805

#### **Dimensions Drawings**

#### **Modules Mounted on Racks**

#### **Dimensions**



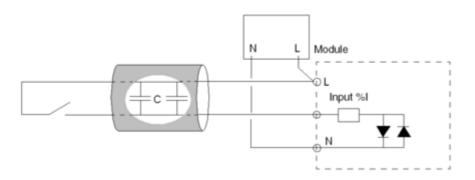
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

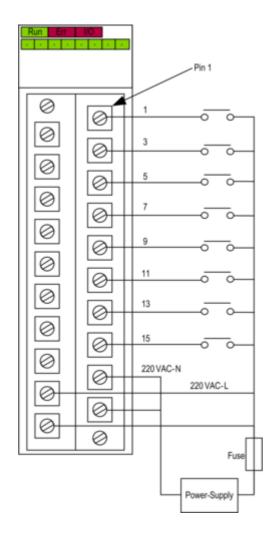
Connections and Schema

#### **Connecting the Module**

## **Input Circuit Diagram**



#### **Module Connection**



power supply 200...240 VAC fuse fast blow fuse of 0.5 A