Product data sheet

Specifications





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

BMXDAI1604

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Capacitive
Discrete input voltage	100120 V AC
Discrete input current	5 mA

Complementary			
Input compatibility	2-wire proximity sensor conforming to IEC 60947-5-2 2-wire proximity sensor conforming to IEC 61131-2 type 3		
Network frequency	50/60 Hz		
Network frequency limits	4763 Hz		
Sensor power supply	85132 V		
Current state 1 guaranteed	>= 2.5 mA		
Current state 0 guaranteed	<= 1 mA		
Input impedance	13000 Ohm		
Insulation resistance	> 10 MOhm 500 V DC		
Power dissipation in W	3.8 W		
AC activation response time	10 ms		
AC deactivation response time	20 ms		
Typical current consumption	76 mA at 3.3 V DC		
MTBF reliability	1120000 H		
Protection type	1 external fuse per group of channel0.5 A fast blow		
Voltage detection threshold	< 40 V AC sensor fault > 82 V AC 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	0.115 kg		

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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

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	149.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Height Package 2 Width	
	15.000 cm

Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	REACh Declaration		
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Mercury free	Yes		
China RoHS Regulation	China RoHS declaration		
RoHS exemption information	Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
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		

Contractual warranty

Warranty

18 months

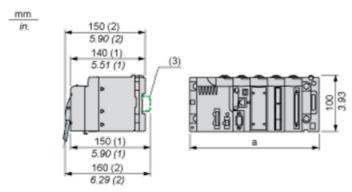
Product data sheet

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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.

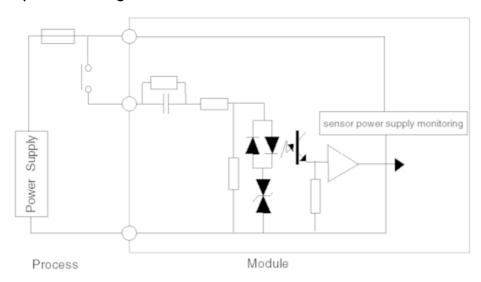
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

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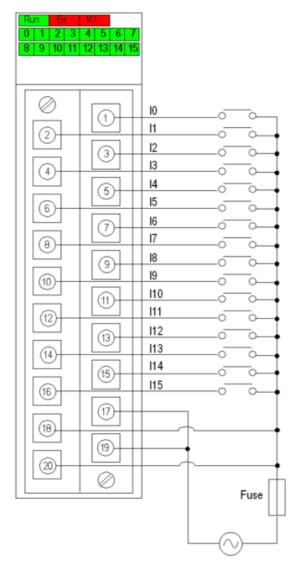
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



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

Recommended replacement(s)