Product data sheet
Characteristics

BMXDAI1603
discrete input module X80 - 16 inputs - 48 V AC

Green Premium™ Product

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	48 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	47…63 Hz
Sensor power supply	40...52 V
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1 mA
Input impedance	9000 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	4 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	1303645 H
Protection type	1 external fuse per group of channel0.5 A fast blow
Voltage detection threshold	< 24 V AC sensor fault > 36 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

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	-40…85 °C
Ambient air temperature for operation	0…60 °C
Relative humidity	5…95 % at 55 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating factor

Packing Units

Package 1 Weight	0.153 kg
Package 1 Height	55.000 mm
Package 1 width	110.000 mm
Package 1 Length	120.000 mm

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
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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

Contractual warranty

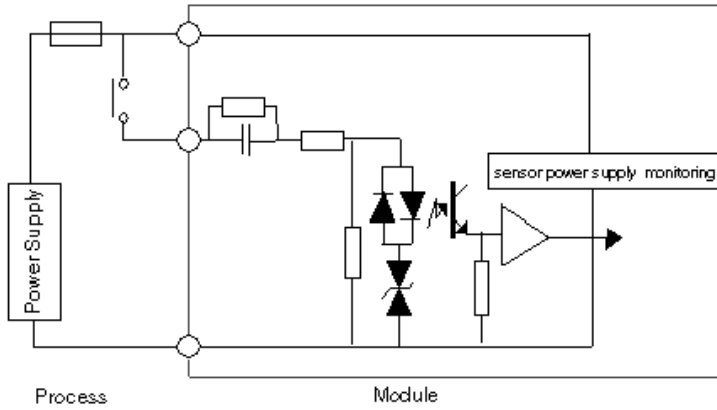|	
Warranty	18 months

Modules Mounted on Racks

Dimensions

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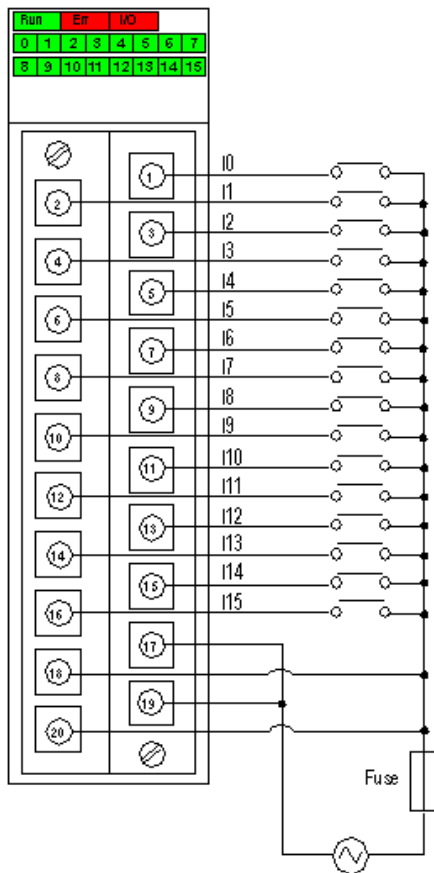(3)   On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

Connecting the Module

Input Circuit Diagram

Module Connection

power   48 VAC
supply
fuse   fast blow fuse of 0.5 A