Product datasheet
Characteristics

BMXDAI1603
discrete input module M340 - 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
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2

Complementary

Network frequency	50/60 Hz
Network frequency limits	47...63 Hz
Sensor power supply	20...26 V
Voltage state 1 guaranteed	>= 34 V
Current state 1 guaranteed	>= 2 mA
Voltage state 0 guaranteed	<= 10 V
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 filtering time	10 ms
AC deactivation filtering time	20 ms
Typical current consumption	90 mA at 3.3 V DC
MTBF reliability	1504958 H
Protection type	1 external fuse per group of channel 0.5 A fast blow
Voltage detection threshold	< 24 V DC sensor fault > 36 V DC sensor OK
Status LED	1 LED red for module error (ERR) 1 LED green for module operating (RUN) 1 LED per channel green for channel diagnostic 1 LED red for module I/O
Product weight	0.115 kg

Environment

directives	2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
IP degree of protection	IP20
product certifications	CE CSA UL RCM Merchant Navy EAC
standards	EN 61000-6-2 EN 61000-6-4 EN 61131-2 EN 61010-2-201
dielectric strength	1500 V AC at 50/60 Hz 1 min

Schneider Electric

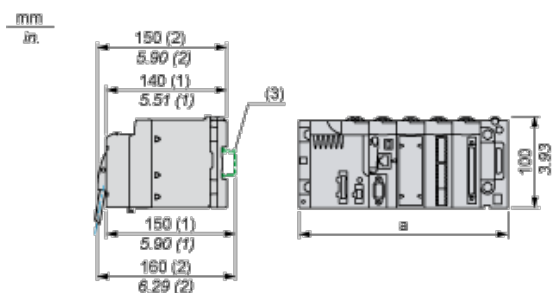| vibration resistance	3 gn
shock resistance	30 gn
ambient air temperature for storage	-40...85 °C
ambient air temperature for operation	0...60 °C
relative humidity	5...95 % without condensation 55 °C
protective treatment	TC
operating altitude	0...2000 m 2000...5000 m (with derating factor)

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0805 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

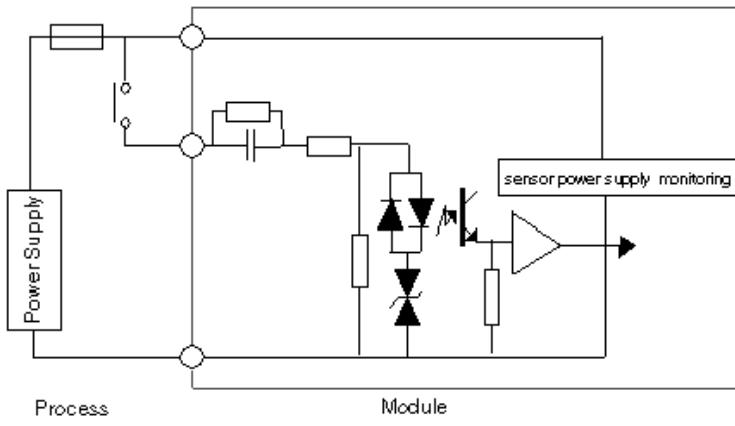| Warranty period	18 months

Modules Mounted on Racks

Dimensions

(1) With removable terminal block (cage, screw or spring).

(2) With FCN connector.

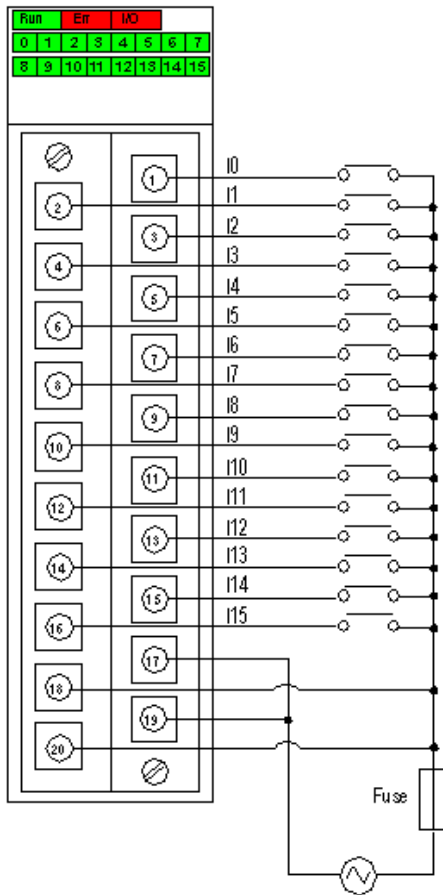**(3)** On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

Process   Module

Module Connection

Fuse

power 48 VAC
supply

fuse fast blow fuse of 0.5 A