BMXDAI1602

discrete input module X80 - 16 inputs - 24V AC/DC positive or negative





Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Resistive
Discrete input voltage	24 V DC, discrete input logic: positive or negative 24 V AC
Discrete input current	3 MA at 24 V AC 3.9 mA at 24 V DC

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors AC conforming to IEC 61131-2 Type 1	
Network frequency	50/60 Hz	
Network frequency limits	4763 Hz	
Sensor power supply	2026 V AC 1930 V DC	
Current state 1 guaranteed	>= 2 mA AC >= 2 mA DC	
Current state 0 guaranteed	<= 1 mA AC <= 0.5 mA DC	
Input impedance	6 kOhm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	3 W	
AC activation response time	15 ms	
AC deactivation response time	20 ms	
Paralleling of inputs	No	
Typical current consumption	76 mA at 3.3 V DC	
MTBF reliability	1125000 H	
Protection type	1 external fuse per group of channel0.5 A fast blow	
Voltage detection threshold	< 14 V AC/DC sensor fault > 18 V AC/DC 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 minute, primary/secondary	
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 02000 m 20005000 m with derating factor	
Operating altitude		
Packing Units		
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	12.500 cm	
Package 1 Weight	137.000 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	2.374 kg	
Offer Sustainability Sustainable offer status	Green Premium product	
DEACh Description		
REACh Regulation	REACh Declaration	
	REACh Declaration Yes	
REACh free of SVHC		
REACh free of SVHC EU RoHS Directive	Yes Pro-active compliance (Product out of EU RoHS legal scope) ☐ EU RoHS	
REACh Regulation REACh free of SVHC EU RoHS Directive Mercury free China RoHS Regulation	Yes Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
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REACh free of SVHC EU RoHS Directive Mercury free China RoHS Regulation RoHS exemption information	Yes Pro-active compliance (Product out of EU RoHS legal scope) ■ EU RoHS Declaration Yes ■ China RoHS Declaration ■ Yes	

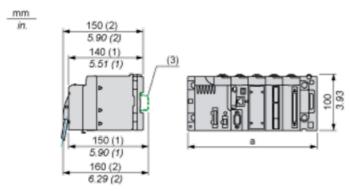
Contractual warranty

Contractal Warranty	
Warranty	18 months

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Modules Mounted on Racks

Dimensions



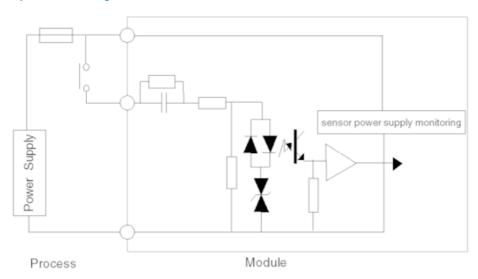
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

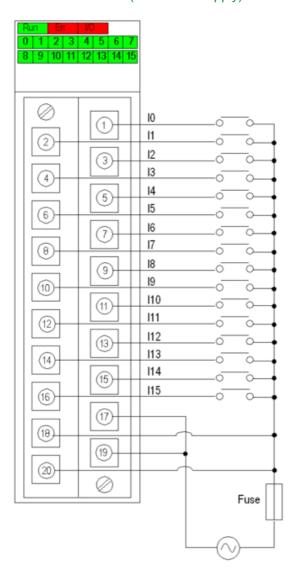
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Connecting the Module

Input Circuit Diagram

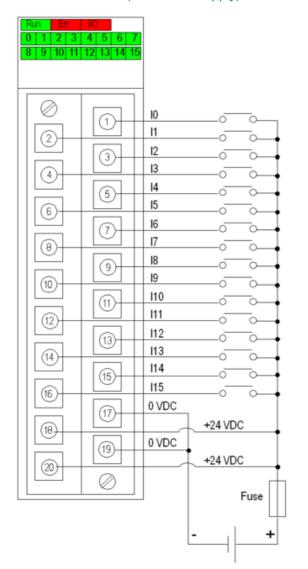


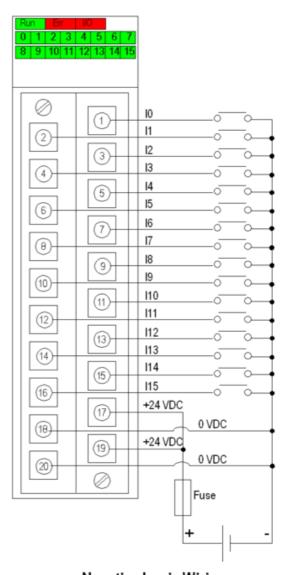
Module Connection (AC Power Supply)



power supply 24 VAC fuse fast blow fuse of 0.5 A

Module Connection (DC Power Supply)





Positive Logic Wiring

Negative Logic Wiring

power supply 24 VDC fuse fast blow fuse of 0.5 A