Product data sheet

Specifications





Discrete input module, Modicon X80, 16 inputs, 24V DC positive

BMXDDI1602

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC, discrete input logic: positive
Discrete input current	3.5 mA

Complementary

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 3	
Sensor power supply	1930 V	
Current state 1 guaranteed	>= 2 mA	
Current state 0 guaranteed	<= 1.5 mA	
Input impedance	6800 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	2.5 W	
DC typical response time	4 ms	
DC maximum response time	7 ms	
Paralleling of inputs	Yes	
Typical current consumption	76 mA at 3.3 V DC	
MTBF reliability	775000 H	
Protection type	1 external fuse per group of channel0.5 A fast blow reverse polarity protection	
Voltage detection threshold	< 14 V DC sensor fault > 18 V 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
Environmental characteristic	Fungal spore resistant class 3B2
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
Operating altitude	02000 m 20005000 m with derating factor

Packing Units

PCE
1
5.488 cm
11.188 cm
11.741 cm
151.0 g
S02
15
15 cm
30 cm
40 cm
2.931 kg
P06
240
75.0 cm
40.0 cm
80.0 cm
57 kg

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	

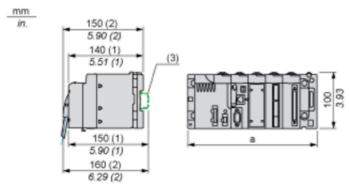
Product data sheet

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Dimensions Drawings

Modules Mounted on Racks

Dimensions



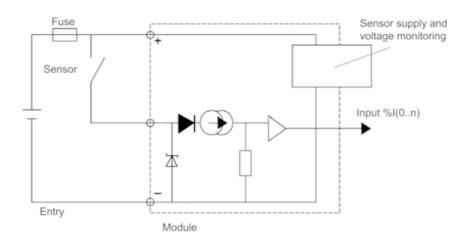
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

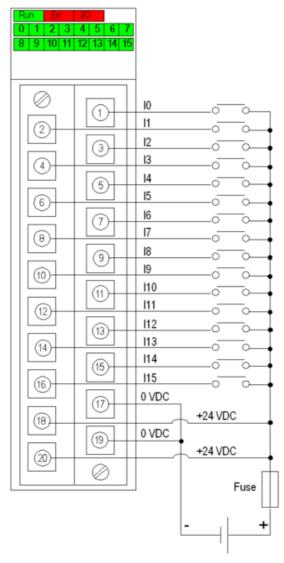
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



power supply 24 VDC fuse fast blow fuse of 0.5 A

Recommended replacement(s)