BMXDDI3203

discrete input module, Modicon X80, 32 inputs, 48V DC positive





Main

Range of product	Modicon X80	
Product or component type	Discrete input module	
Discrete input number	32	
Discrete input type	Isolated	
Input type	Current sink (logic positive)	
Discrete input voltage	48 V DC, discrete input logic: positive	
Discrete input current	2.3 mA	

Complementary

Complementary		
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 type 3	
Sensor power supply	3860 V	
Voltage state 1 guaranteed	> 30 V	
Current state 1 guaranteed	>= 2 mA	
Voltage state 0 guaranteed	<= 10 V	
Current state 0 guaranteed	<= 1.5 mA	
Input impedance	20960 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	6 W	
DC typical response time	4 ms	
DC maximum response time	7 ms	
Paralleling of outputs	Yes	
Typical current consumption	100 mA at 3.3 V DC	
MTBF reliability	2500000 H	
Protection type	1 external fuse per group of channel0.5 A fast blow Reverse polarity protection	
Voltage detection threshold	< 24 V DC sensor fault > 36 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	0.137 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 1500 V AC at 50/60 Hz 1 minute, between group of channels	
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 -2570 °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	5.400 cm	
Package 1 Width	18.000 cm	
Package 1 Length	26.000 cm	
Package 1 Weight	308.000 g	
Unit Type of Package 2	S03	
Number of Units in Package 2	10	
Package 2 Height	30.000 cm	
Package 2 Width	30.000 cm	
Package 2 Length	40.000 cm	
Package 2 Weight	3.670 kg	
Offer Sustainability		
Sustainable offer status	Green Premium product	
REACh Regulation	[€] REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

Contractual warranty

WEEE

Warranty	
	18 months

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

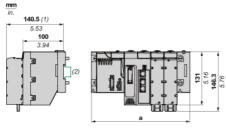


Product data sheet Dimensions Drawings

BMXDDI3203

Modules Mounted on Racks

Dimensions

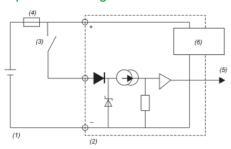


- (1) With removable terminal block (cage, screw or spring).
- (2) On AM1 ED rail: 35 mm wide, 15 mm deep.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	9.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200and BMXXBP1200H	503.2	19.81
BMEXBP0400 and BMEXBP0400H	242.4	9.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81
BMEXBP0602 and BMEXBP0602H	375.8	14.8
BMEXBP1002 and BMEXBP1002H	506.2	19.93

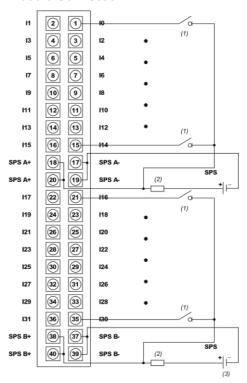
Connecting the Module

Input Circuit Diagram



- (1) Entry
- (2) Module
- (3) Sensor
- (4) Fuse
- (5) Input % I(0...n)
- (6) Sensor supply and voltage monitoring

Module Connection



(1) Sensor

(2) Fuse: fast-blow fuse of 0.5A

(3) 48 VDC

SPS: Sensor power supply