BMXDDI1603H

discrete input module X80 - 16 inputs - 48V DC current sink (logic positive) - severe





Main

Range of product	Modicon X80
Product or component type	Discrete input module
Product specific application	For severe environments
Discrete input number	16
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	48 V DC, discrete input logic: positive
Discrete input current	2.5 mA

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 1	
Sensor power supply	3660 V 60 °C 42.252.8 V 70 °C	
Current state 1 guaranteed	>= 2 mA	
Current state 0 guaranteed	<= 0.5 mA	
Input impedance	19200 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	3.6 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	738749 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	0.115 kg	

Environment

IP degree of protection	IP20	
Directives	2014/35/EU - low voltage directive	
	2014/30/EU - electromagnetic compatibility	
Environmental characteristic	Gas resistant class Gx	
	Gas resistant class 3C4	
	Dust resistant class 3S4	
	Sand resistant class 3S4	
	Salt resistant level 2	
	Mold growth resistant class 3B2	
	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	-2570 °C	
Relative humidity	595 % at 55 °C without condensation	
Protective treatment	Conformal coating	
Operating altitude	02000 m 20005000 m with derating factor	
Packing Units		
Package 1 Weight	0.155 kg	
Package 1 Height	50.000 mm	

110.000 mm

120.000 mm

Offer Sustainability

Package 1 width

Package 1 Length

Green Premium product	
☑ REACh Declaration	
Yes	
Pro-active compliance (Product out of EU RoHS legal scope)	
Yes	
₫Yes	
China RoHS Declaration	
Product Environmental Profile	
☑ End Of Life Information	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Contractual warranty

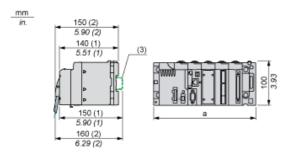
Warranty	18 months
varianty	10 months

Product data sheet **Dimensions Drawings**

BMXDDI1603H

Modules Mounted on Racks

Dimensions



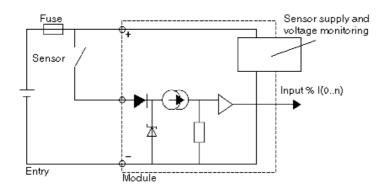
- With removable terminal block (cage, screw or spring). With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

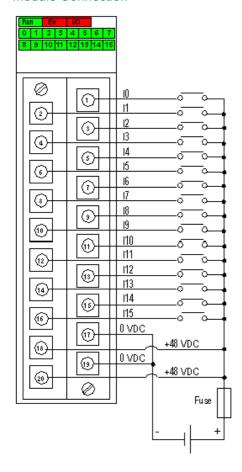
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Connecting the Module

Input Circuit Diagram



Module Connection



power48 VDC supply fuse fast blow fuse of 0.5 A