

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

BMXDDI1603H

Product availability: Non-Stock - Not normally stocked in distribution facility

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 positive
Discrete input current	2.5 mA

Complementary

Input compatibility	With 2-wire/3-wire proximity sensors IEC 60947-5-2 With 2-wire/3-wire proximity sensors IEC 61131-2 Type 1	
Sensor power supply	3660 V 140 °F (60 °C) 42.252.8 V 158 °F (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 3.3 V DC	
MTBF reliability	777000 H	
Protection type	1 external fuse per group of channel 0.5 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	
Product Weight	0.254 lb(US) (0.115 kg)	

Environment

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 50/60 Hz 1 minute, primary/secondary
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)
Ambient air temperature for operation	-13158 °F (-2570 °C)
Relative humidity	595 % 131 °F (55 °C) without condensation
Protective treatment	Conformal coating
Operating altitude	06561.68 ft (02000 m) 20005000 m with derating factor

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3595864025728
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	5.785 oz (164.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	6.146 lb(US) (2.788 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

⊘ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	33
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	43b0fbab-d94b-43e8-be0a-0b39cadd288b
REACh Regulation	REACh Declaration
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

Use Again

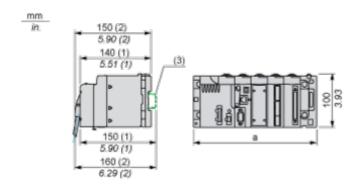
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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Dimensions Drawings

Modules Mounted on Racks

Dimensions



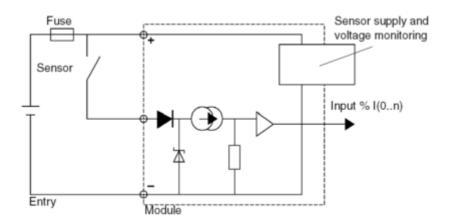
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

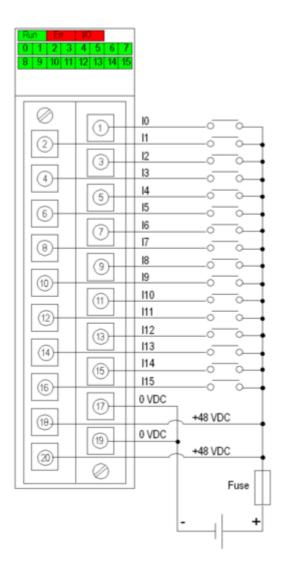
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



Product data sheet

BMXDDI1603H

power supply 48 VDC fuse fast blow fuse of 0.5 A

Image of product / Alternate images

Alternative





