Product data sheet

Specifications

discrete input module, Modicon X80, 16 inputs, 24V DC positive, for severe environments

BMXDDI1602H

Product availability: Stock - 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	24 V DC positive
Discrete Input Current	3.5 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 3
Sensor Power Supply	19...30 V 140 °F (60 °C) 21.1...26.4 V 158 °F (70 °C)
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 3.3 V DC
Mtbf Reliability	775000 H
Protection Type	1 external fuse per group of channel 0.5 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	0.25 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	-40…185 °F (-40…85 °C)
Ambient Air Temperature For Operation	-13…158 °F (-25…70 °C)
Relative Humidity	5…95 % 131 °F (55 °C) without condensation
Protective Treatment	Conformal coating
Operating Altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
Gtin	3595864025605
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	4.53 in (11.5 cm)
Package 1 Weight	5.82 oz (165.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	6.40 lb(US) (2.901 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	240
Package 3 Height	29.53 in (75.0 cm)
Package 3 Width	23.62 in (60.0 cm)
Package 3 Length	31.50 in (80.0 cm)

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Package 3 Weight	130.07 lb(US) (59 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩
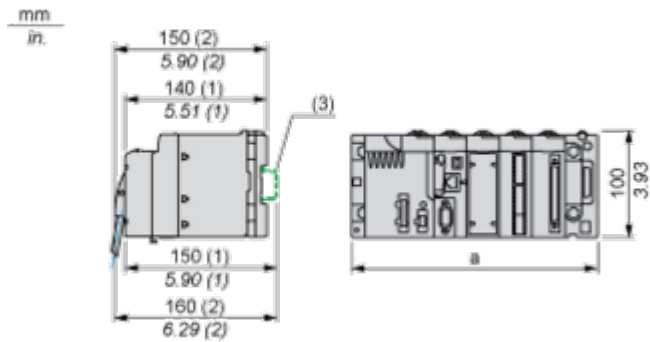
Guide to assess a product's sustainability ⟩

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
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

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Dimensions Drawings

Modules Mounted on Racks
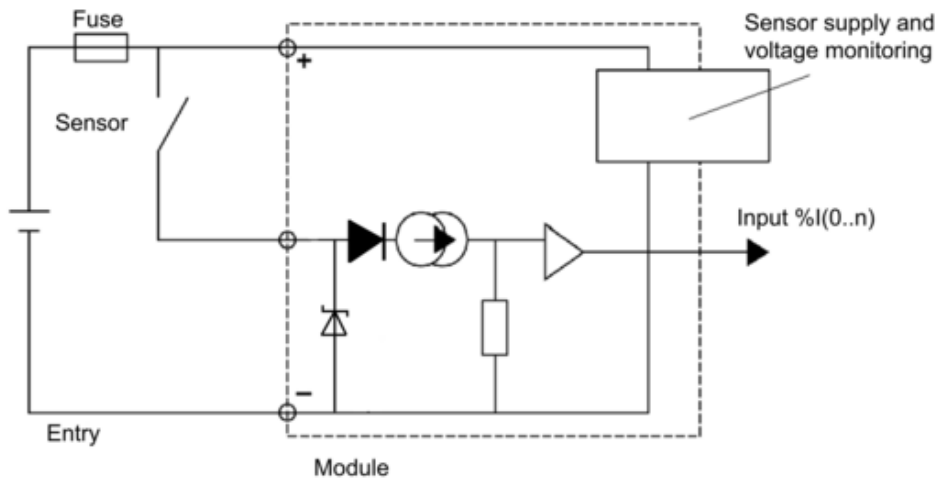
Dimensions

(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.

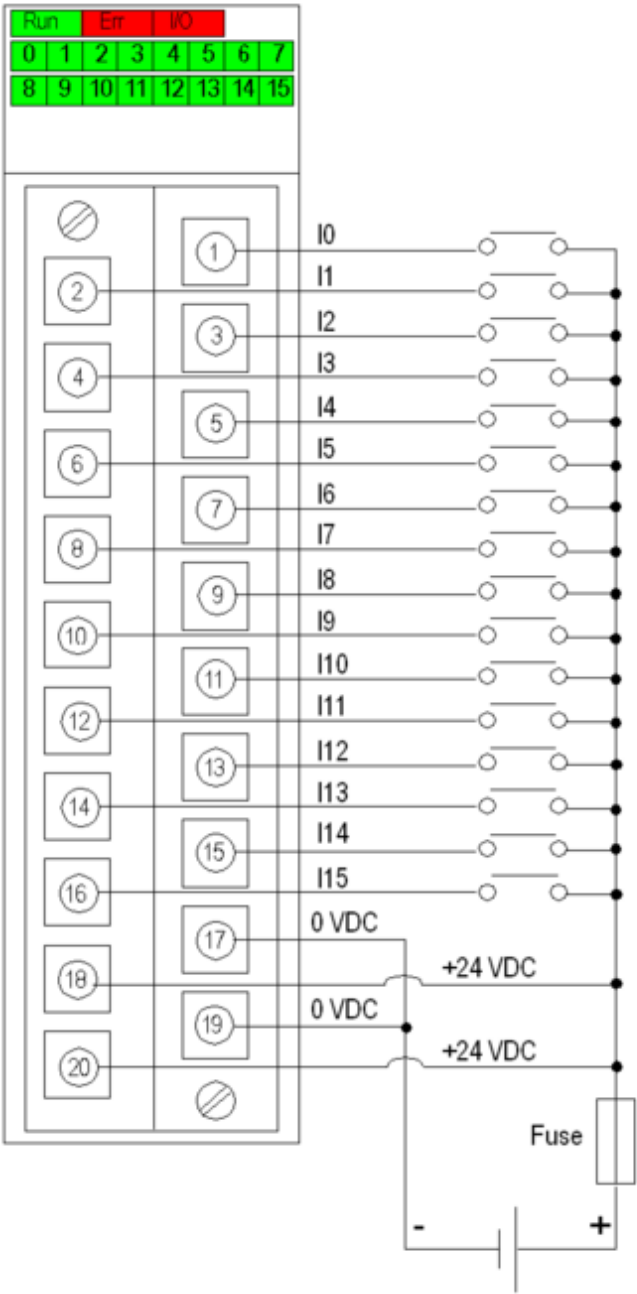| Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema

Connecting the Module

Input Circuit Diagram

Module Connection

power supply 24 VDC
fuse fast blow fuse of 0.5 A