

# Product data sheet

## Characteristics

# BMXDDI1603H

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



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
Voltage range	36...60 V 140 °F (60 °C) 42.2...52.8 V 158 °F (70 °C)
Current state 1 guaranteed	$\geq 2$ mA
Current state 0 guaranteed	$\leq 0.5$ mA
Input impedance	19200 Ohm
Insulation resistance	$> 10$ MOhm 500 V DC
Power dissipation in W	3.6 W
DC typical filtering time	4 Ms
DC maximum filtering time	7 Ms
Paralleling of inputs	Yes
Typical current consumption	76 MA 3.3 V DC
MTBF reliability	738749 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

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Status LED	Module operating (RUN) 1 LED Green) Channel diagnostic 1 LED per channel Green) Module error (ERR) 1 LED Red) Module I/O 1 LED Red)
Net Weight	0.25 Lb(US) (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 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	18160 - MODICON M340
Discount Schedule	PC34
GTIN	3595864025728
Nbr. of units in pkg.	1
Package weight(Lbs)	5.47 Oz (155 g)
Returnability	No
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.97 In (5 cm)
Package 1 width	4.33 In (11 cm)
Package 1 Length	4.72 In (12 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	6.15 Lb(US) (2.788 kg)
Package 2 Height	5.91 In (15 cm)
Package 2 width	11.81 In (30 cm)
Package 2 Length	15.75 In (40 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

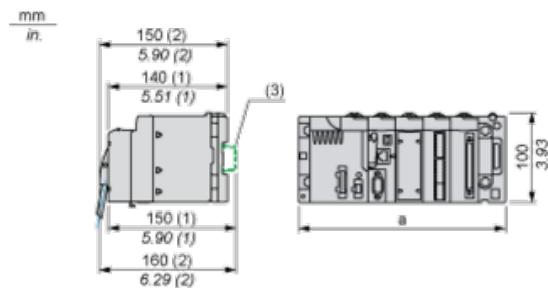
Warranty	18 months
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## Modules Mounted on Racks

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### Dimensions



(1) With removable terminal block (cage, screw or spring).

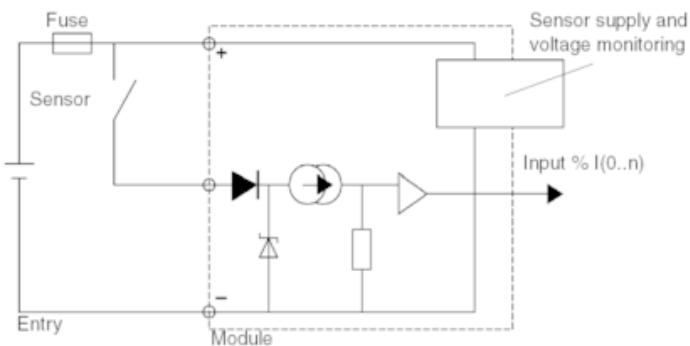
(2) With FCN connector.

(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

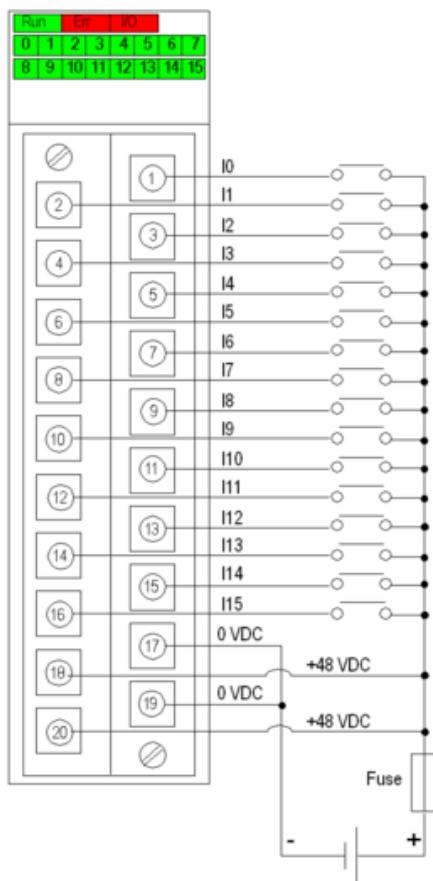
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	9.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

## Connecting the Module

### Input Circuit Diagram



### Module Connection



power supply 48 VDC  
fuse fast blow fuse of 0.5 A

Product Life Status : **Commercialised**