Product data sheet
Characteristics

BMXDDI1602H
discrete input module X80 - 16 inputs - 24V DC current sink (logic positive)

Green Premium

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
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2

Complementary

Sensor power supply	26.4 V at 158 °F (70 °C) 19...30 V at 140 °F (60 °C)
Voltage state 1 guaranteed	>= 11 V
Current state 1 guaranteed	>= 2 mA
Voltage state 0 guaranteed	<= 5 V
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 filtering time	4 ms
DC maximum filtering time	7 ms
Paralleling of inputs	Yes
Typical current consumption	90 mA at 3.3 V DC
MTBF reliability	798237 H
Protection type	Reverse polarity protection 1 external fuse per group of channel 0.5 A fast blow
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 I/O 1 LED red module error (ERR)
Product weight	0.25 lb(US) (0.115 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility
Product certifications	RCM EAC IEC-Ex ATEX Merchant Navy CE CSA UL
Standards	EN 61131-2 EN 61010-2-201 EN 61000-6-2 EN 61000-6-4
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	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation 131 °F (55 °C)
Protective treatment	Conformal coating
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
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	00785901041641
Nbr. of units in pkg.	1
Package weight(Lbs)	0.34000000000000002
Returnability	Y
Country of origin	ID

Offer Sustainability

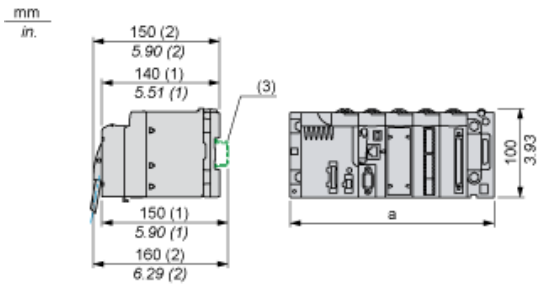
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0911 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

Modules Mounted on Racks

Dimensions

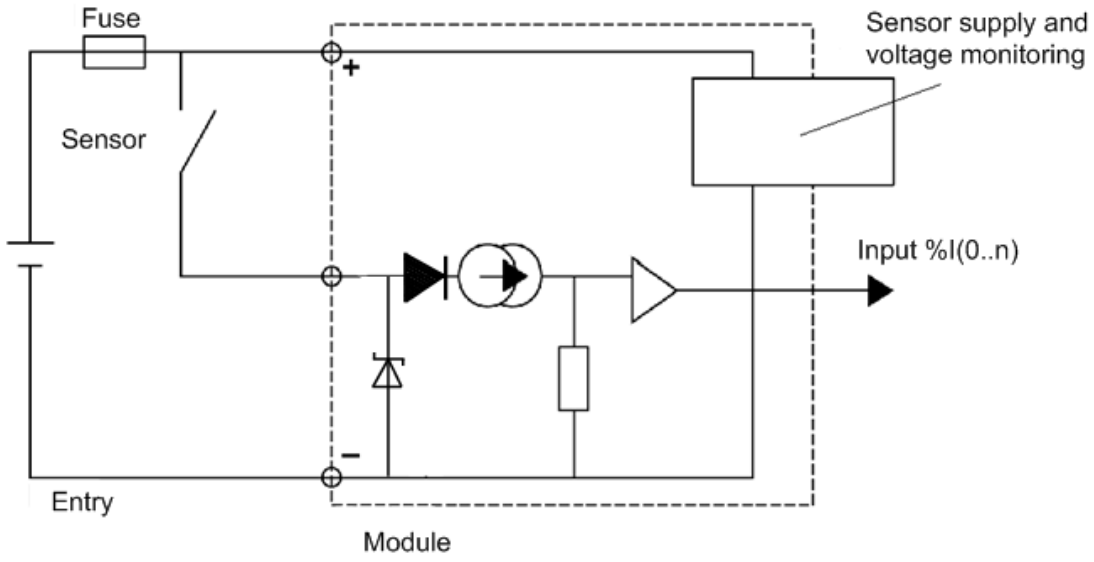


(1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

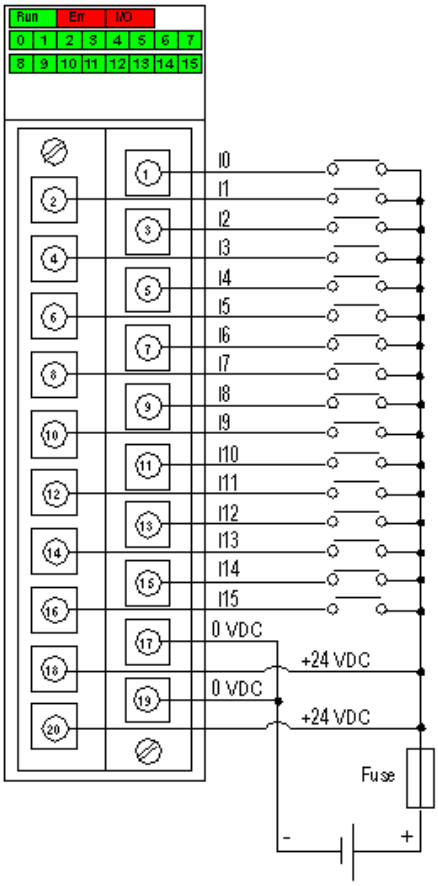
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connecting the Module

Input Circuit Diagram



Module Connection



power24 VDC
supply
fuse fast blow fuse of 0.5 A