

Product data sheet

Specifications



discrete I/O module X80 - 8 I - 24 V DC - 8 O - relay - severe

BMXDDM16025H

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

Main

Range of Product	Modicon X80
Product or Component Type	Discrete I/O module
Product Specific Application	For severe environments
Discrete input number	8
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC positive
Discrete input current	3.5 mA
Discrete output number	8
Discrete output type	Relay
Discrete output voltage	24 V 19...30 V DC 24...240 V 19...264 V AC
Discrete output current	2000 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...29.0 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	3.1 W
DC typical response time	4 ms
DC maximum response time	7 ms
Response time on output	<= 8 ms deactivation <= 10 ms activation
Paralleling of inputs	No
Typical current consumption	79 mA 3.3 V DC
MTBF reliability	940000 H
Protection type	1 external fuse per group of input channel 0.5 A fast blow reverse polarity protection on input 1 external fuse per output channel or group of output channel fast blow
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC sensor OK

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

Disclaimer: 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

Minimum switching current	1 mA 5 V DC
Maximum switching voltage	125 V DC 264 V AC
Mechanical durability	20000000 cycles
Electrical durability	AC-14 100000 cycles 120 VA 240 V 158 °F (70 °C) 0.7) AC-14 100000 cycles 150 VA 200 V 158 °F (70 °C) 0.7) AC-14 100000 cycles 240 VA 240 V -13...140 °F (-25...60 °C) 0.7) AC-14 100000 cycles 300 VA 200 V -13...140 °F (-25...60 °C) 0.7) AC-15 100000 cycles 100 VA 200 V 158 °F (70 °C) 0.35) AC-15 100000 cycles 120 VA 240 V -13...140 °F (-25...60 °C) 0.35) AC-15 100000 cycles 200 VA 200 V -13...140 °F (-25...60 °C) 0.35) AC-15 100000 cycles 60 VA 240 V 158 °F (70 °C) 0.35) DC-13 100000 cycles 12 W 24 V 158 °F (70 °C) DC-13 100000 cycles 24 W 24 V -13...140 °F (-25...60 °C) AC-14 300000 cycles 36 VA 240 V 158 °F (70 °C) 0.7) AC-14 300000 cycles 40 VA 200 V 158 °F (70 °C) 0.7) AC-14 300000 cycles 72 VA 240 V -13...140 °F (-25...60 °C) 0.7) AC-14 300000 cycles 80 VA 200 V -13...140 °F (-25...60 °C) 0.7) AC-15 300000 cycles 18 VA 240 V 158 °F (70 °C) 0.35) AC-15 300000 cycles 30 VA 200 V 158 °F (70 °C) 0.35) AC-15 300000 cycles 36 VA 240 V -13...140 °F (-25...60 °C) 0.35) AC-15 300000 cycles 60 VA 200 V -13...140 °F (-25...60 °C) 0.35) DC-13 300000 cycles 3.6 W 24 V 158 °F (70 °C) DC-13 300000 cycles 7.2 W 24 V -13...140 °F (-25...60 °C)
Switching frequency	1 Hz
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	0.298 lb(US) (0.135 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 2830 V AC 50/60 Hz 1 minute, output relay 500 V DC 1 minute, between group of I/O
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	3595864025742
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	4.331 in (11.000 cm)
Package 1 Length	4.724 in (12.000 cm)
Package 1 Weight	5.926 oz (168.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	5.787 lb(US) (2.625 kg)

Contractual warranty

Warranty	18 months
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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-CO₂ 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 >](#)



Transparency

Well-being performance

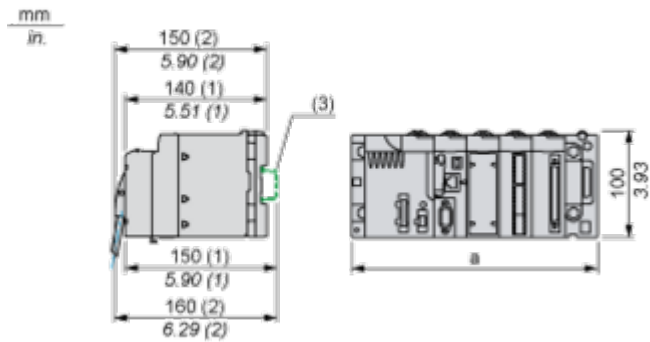
 Mercury Free

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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 "

Dimensions Drawings

Modules Mounted on Racks

Dimensions



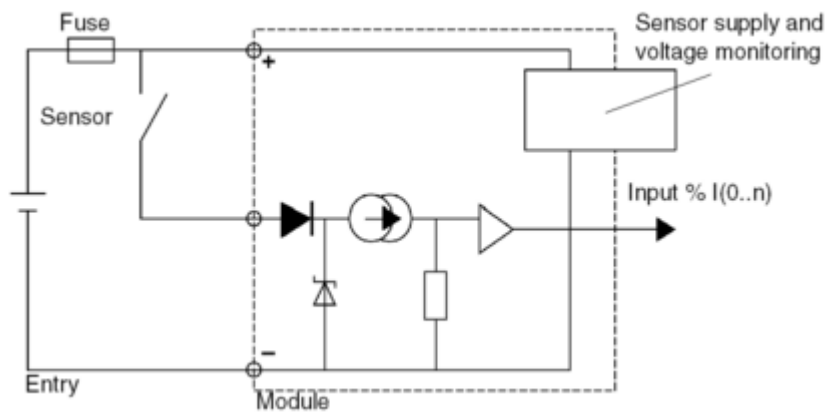
- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

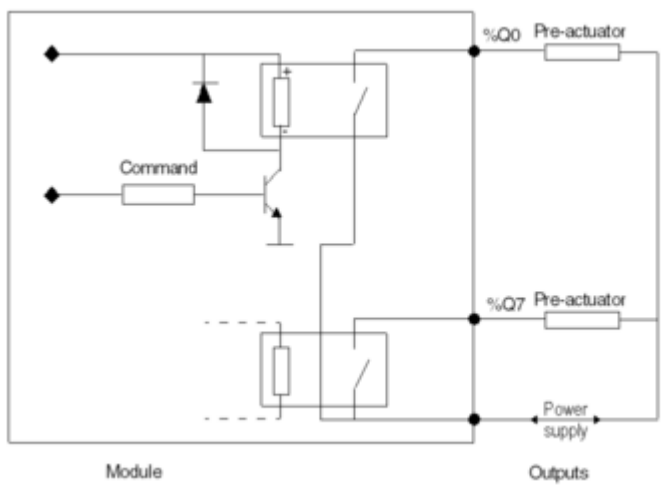
Connections and Schema

Connecting the Module

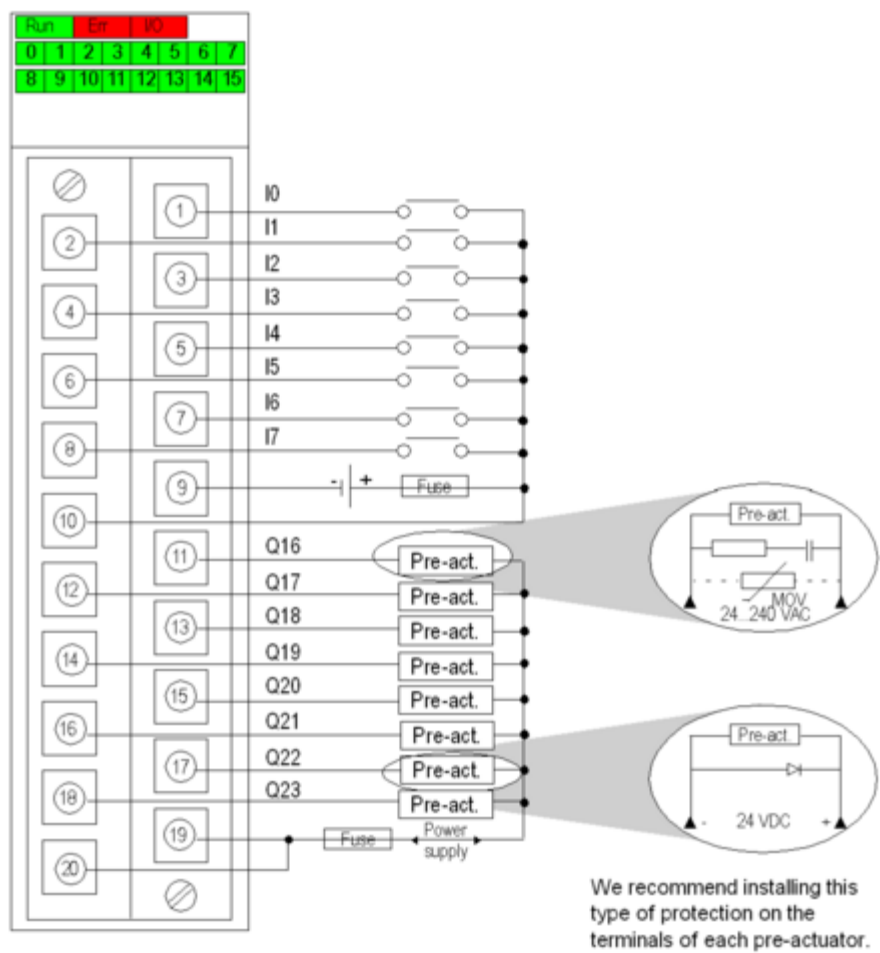
Input Circuit Diagram



Output Circuit Diagram



Module Connection



- input power supply 24 VDC
- output power supply 24 VDC or 24...240 VAC
- input fuse 1 fast blow fuse of 0.5 A
- output fuse 1 fast blow fuse of 12 A
- pre-act pre-actuator