

Product datasheet

Specifications



discrete I/O module X80 - 8 inputs
- 24 V DC - 8 outputs - solid state

BMXDDM16022

Price: 7,791.56 ZAR

Main

Range Of Product	Modicon X80
Product Or Component Type	Discrete I/O module
Discrete Input Number	8
Input Type	Current sink (logic positive)
Discrete Input Voltage	24 V DC, discrete input logic: positive
Discrete Input Current	3.5 mA
Discrete Output Number	8
Discrete Output Type	Solid state
Discrete Output Voltage	24 V 19...30 V DC
Discrete Output Current	0.5 A

Complementary

Input Compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 type 3
Sensor Power Supply	19...30 V
Current State 1 Guaranteed	>= 3 mA
Current State 0 Guaranteed	<= 1.5 mA
Current Per Channel	0.625 A
Maximum Current Per Module	5 A
Maximum Leakage Current	0.5 mA at state 0
Maximum Voltage Drop	<1.2 V at state 1
Input Impedance	6800 Ohm
Insulation Resistance	> 10 MOhm 500 V DC
Power Dissipation In W	3.7 W
Dc Typical Response Time	4 ms
Dc Maximum Response Time	7 ms
Response Time On Output	1.2 ms
Paralleling Of Outputs	Yes : 2 maximum
Typical Current Consumption	79 mA at 3.3 V DC 59 mA at 24 V DC
Current Consumption	<= 111 mA at 3.3 V DC <= 67 mA at 24 V DC
Mtbf Reliability	450000 H

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Protection Type	1 external fuse per group of input channel0.5 A fast blow overvoltage protection on output reverse polarity protection on input reverse polarity protection on output
Output Overload Protection	With current limiter With electronic circuit breaker $1.5 I_n < I_d < 2 I_n$
Output Overvoltage Protection	With transil diode
Output Short-Circuit Protection	With 2 A external fuse
Reverse Polarity Protection	Reverse mounted diode
Voltage Detection Threshold	< 14 V DC preactuator fault < 14 V DC sensor fault > 18 V DC preactuator OK > 18 V DC sensor OK
Maximum Tungsten Load	6 W
Switching Frequency	0.5/LI ² Hz
Maximum Overload Time	15 ms
Load Impedance Ohmic	>= 48 Ohm
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	0.115 kg

Environment

Ip Degree Of Protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric Strength	1500 V AC at 50/60 Hz 1 minute, output/ground 1500 V AC at 50/60 Hz 1 minute, output/internal logic 1500 V AC at 50/60 Hz 1 minute, primary/secondary 500 V DC 1 minute, between group of inputs and outputs
Vibration Resistance	3 gn
Shock Resistance	30 gn
Ambient Air Temperature For Storage	-40...85 °C
Ambient Air Temperature For Operation	0...60 °C
Relative Humidity	5...95 % at 55 °C without condensation
Operating Altitude	0...2000 m 2000...5000 m with derating factor

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.000 cm
Package 1 Length	11.700 cm
Package 1 Weight	142.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	15

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.490 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 RoHS/REACH

Well-being performance

 Mercury Free	
 RoHS Exemption Information	Yes

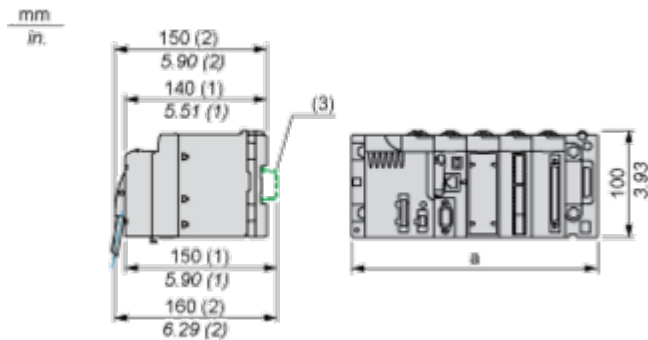
Certifications & Standards

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

Dimensions Drawings

Modules Mounted on Racks

Dimensions



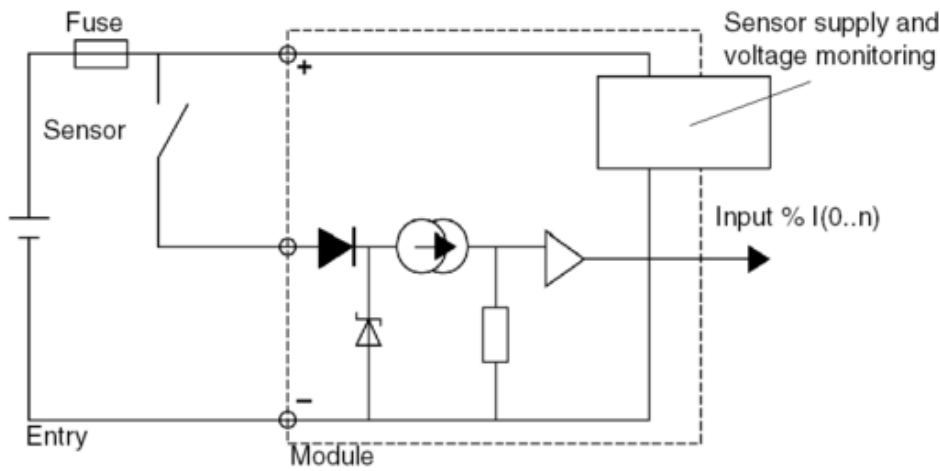
- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

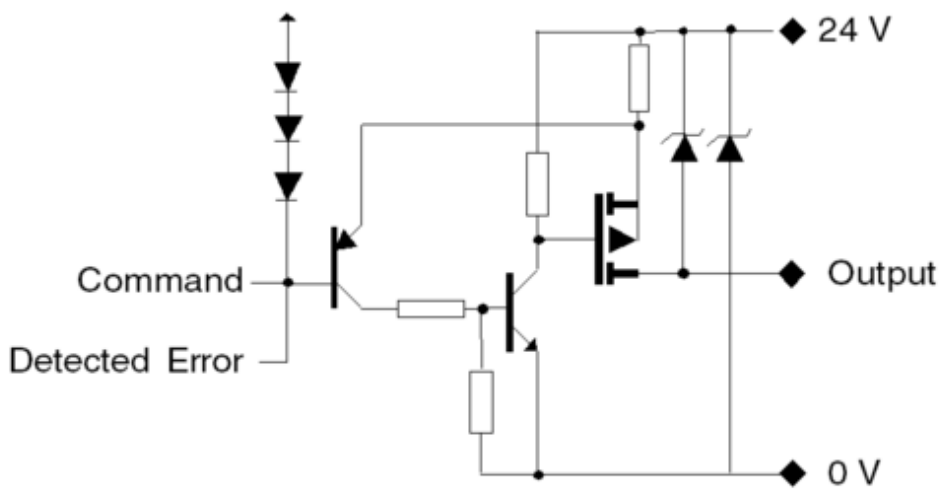
Connections and Schema

Connecting the Module

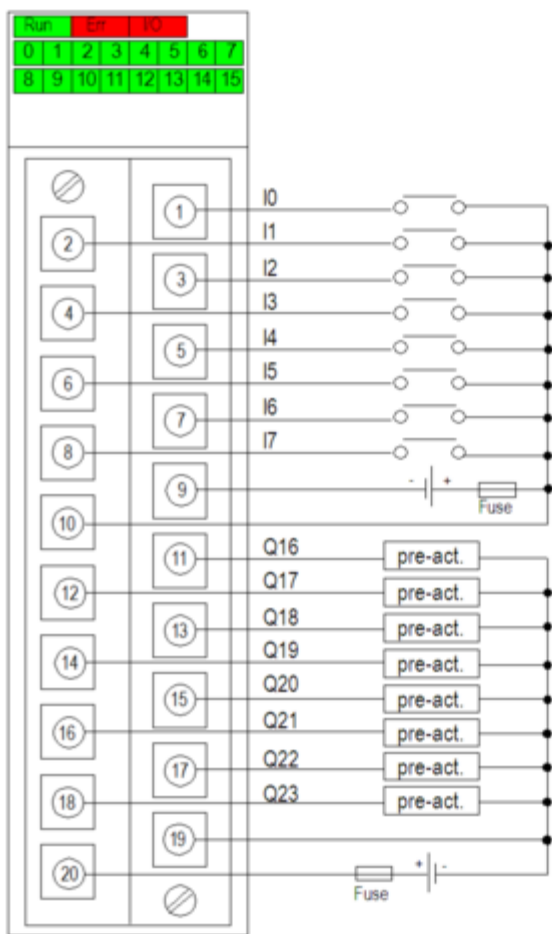
Input Circuit Diagram



Output Circuit Diagram



Module Connection



power supply 24 VDC
input fuse fast blow fuse of 0.5 A
output fuse fast blow fuse of 6.3 A
pre-act pre-actuator