

# Product data sheet

Specifications



discrete mixed IO module, Modicon X80, 8 inputs, 24V DC, 8 relay outputs, 24 to 240V AC positive

BMXDDM16025

## 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 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
Current State 1 Guaranteed	$\geq 2$ mA
Current State 0 Guaranteed	$\leq 1.5$ 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	$\leq 8$ ms deactivation $\leq 10$ 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
Minimum Switching Current	1 mA 5 V DC

<b>Maximum Switching Voltage</b>	125 V DC 264 V AC
<b>Mechanical Durability</b>	20000000 cycles
<b>Electrical Durability</b>	AC-14 100000 cycles 240 VA 240 V 0.7) AC-14 100000 cycles 300 VA 200 V 0.7) AC-15 100000 cycles 120 VA 240 V 0.35) AC-15 100000 cycles 200 VA 200 V 0.35) DC-13 100000 cycles 24 W 24 V AC-14 300000 cycles 72 VA 240 V 0.7) AC-14 300000 cycles 80 VA 200 V 0.7) AC-15 300000 cycles 36 VA 240 V 0.35) AC-15 300000 cycles 60 VA 200 V 0.35) DC-13 300000 cycles 7.2 W 24 V
<b>Switching Frequency</b>	1 Hz
<b>Status Led</b>	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
<b>Net Weight</b>	0.30 lb(US) (0.135 kg)

## Environment

<b>Ip Degree Of Protection</b>	IP20
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Dielectric Strength</b>	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
<b>Vibration Resistance</b>	3 gn
<b>Shock Resistance</b>	30 gn
<b>Ambient Air Temperature For Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature For Operation</b>	32...140 °F (0...60 °C)
<b>Relative Humidity</b>	5...95 % 131 °F (55 °C) without condensation
<b>Operating Altitude</b>	0...2000 m 2000...5000 m with derating factor

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	2.01 in (5.100 cm)
<b>Package 1 Width</b>	4.57 in (11.600 cm)
<b>Package 1 Length</b>	4.65 in (11.800 cm)
<b>Package 1 Weight</b>	5.61 oz (159.000 g)
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	15
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	6.08 lb(US) (2.760 kg)

## Contractual warranty

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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<sub>2</sub> 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](#)

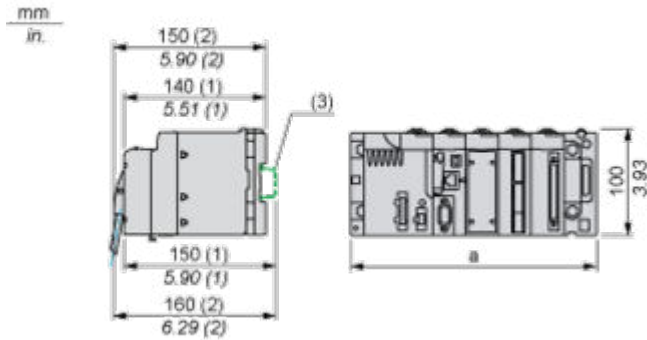
**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Modules Mounted on Racks

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Dimensions



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

(2) With FCN connector.

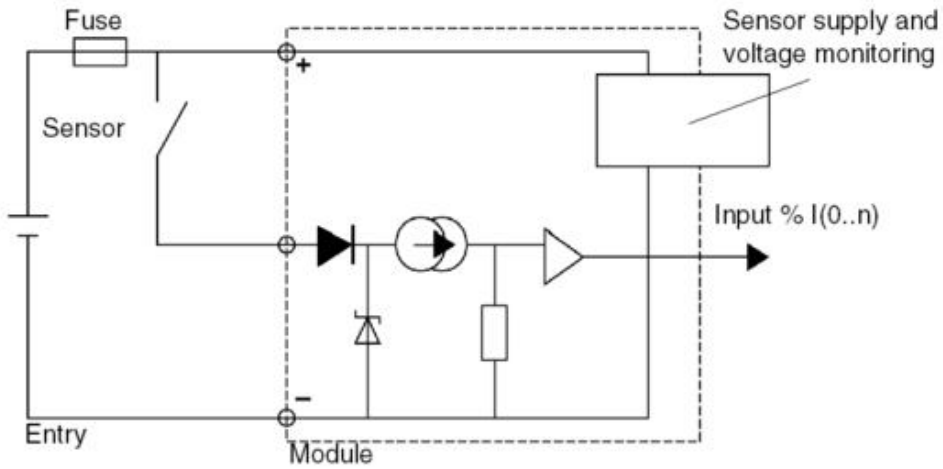
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

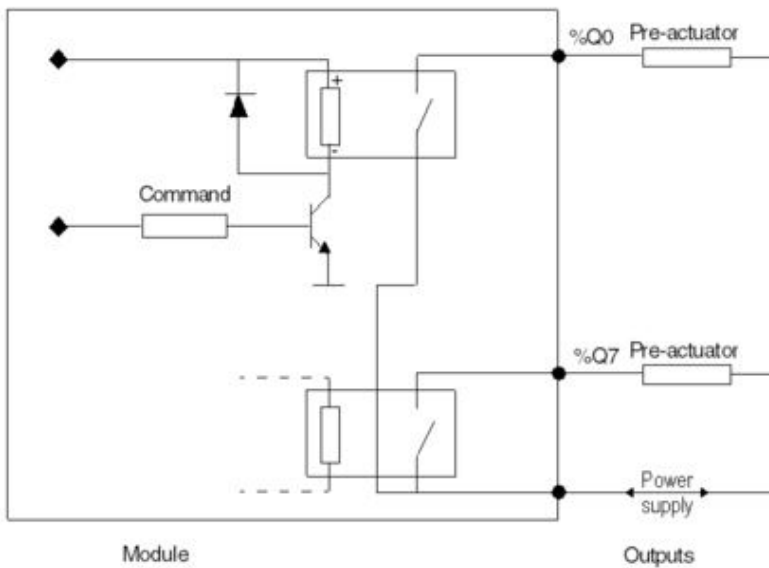
Connections and Schema

Connecting the Module

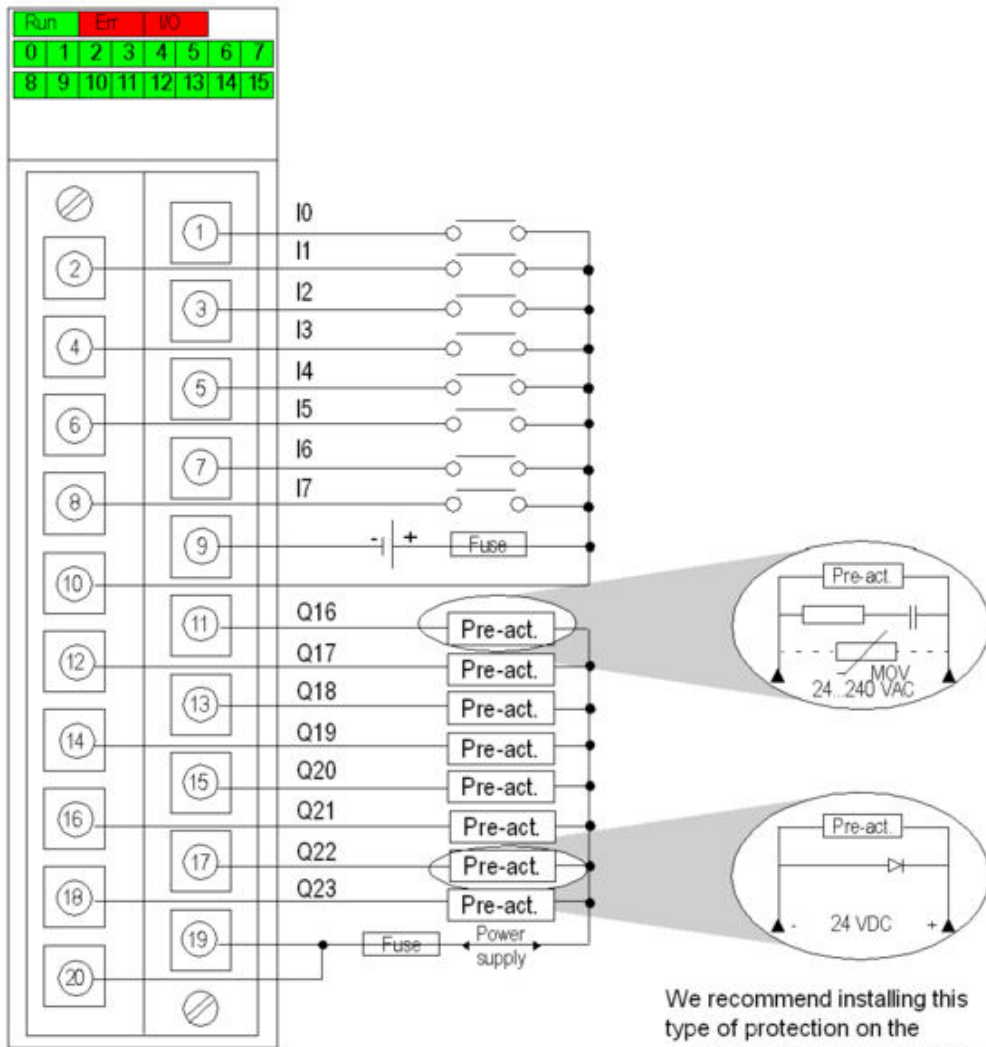
Input Circuit Diagram



Output Circuit Diagram



Module Connection



We recommend installing this type of protection on the terminals of each pre-actuator.

- 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