

# 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, discrete input logic: 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 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	$\geq 2$ 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 at 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 at 240 VA 240 V (load factor 0.7) AC-14: 100000 cycles at 300 VA 200 V (load factor 0.7) AC-15: 100000 cycles at 120 VA 240 V (load factor 0.35) AC-15: 100000 cycles at 200 VA 200 V (load factor 0.35) DC-13: 100000 cycles at 24 W 24 V AC-14: 300000 cycles at 72 VA 240 V (load factor 0.7) AC-14: 300000 cycles at 80 VA 200 V (load factor 0.7) AC-15: 300000 cycles at 36 VA 240 V (load factor 0.35) AC-15: 300000 cycles at 60 VA 200 V (load factor 0.35) DC-13: 300000 cycles at 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>	0.135 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 at 50/60 Hz 1 minute, primary/secondary 2830 V AC at 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...85 °C
<b>Ambient air temperature for operation</b>	0...60 °C
<b>Relative humidity</b>	5...95 % at 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>	5.100 cm
<b>Package 1 Width</b>	11.600 cm
<b>Package 1 Length</b>	11.800 cm
<b>Package 1 Weight</b>	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>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	2.760 kg

## Contractual warranty

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Warranty

18 months



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 27

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

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](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

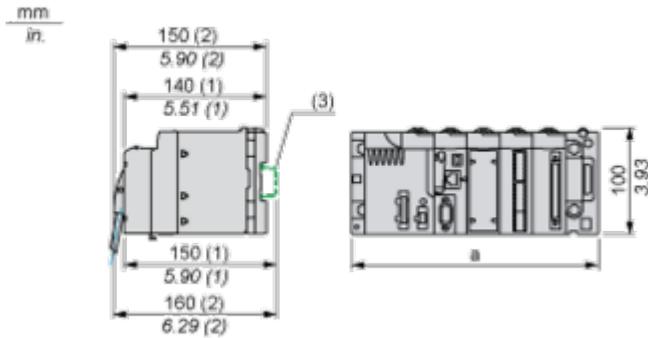
Take-back No

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.

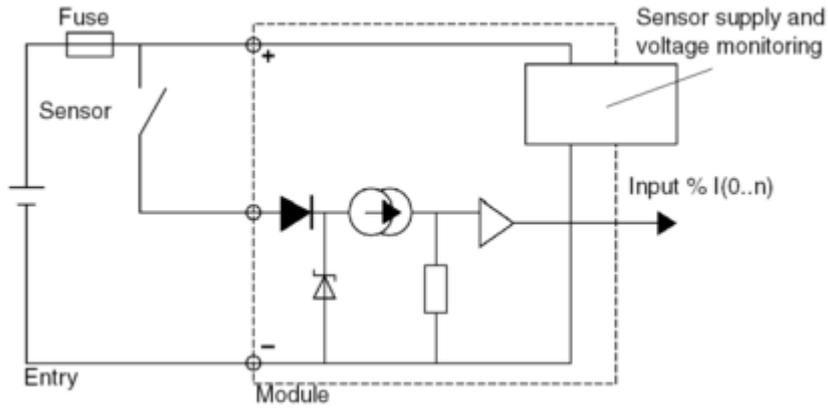
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema

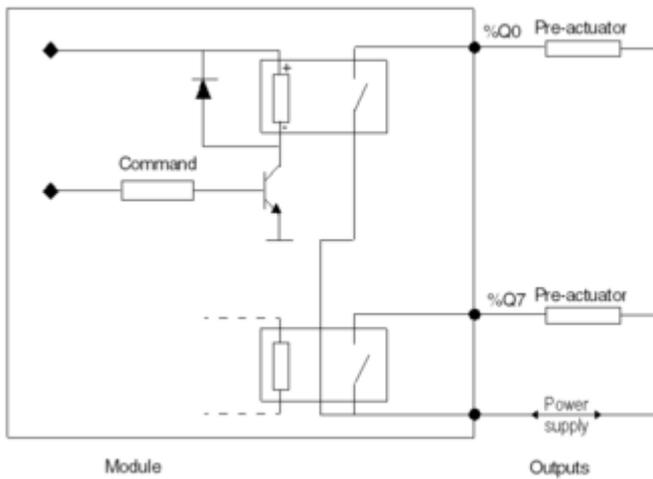
Connecting the Module

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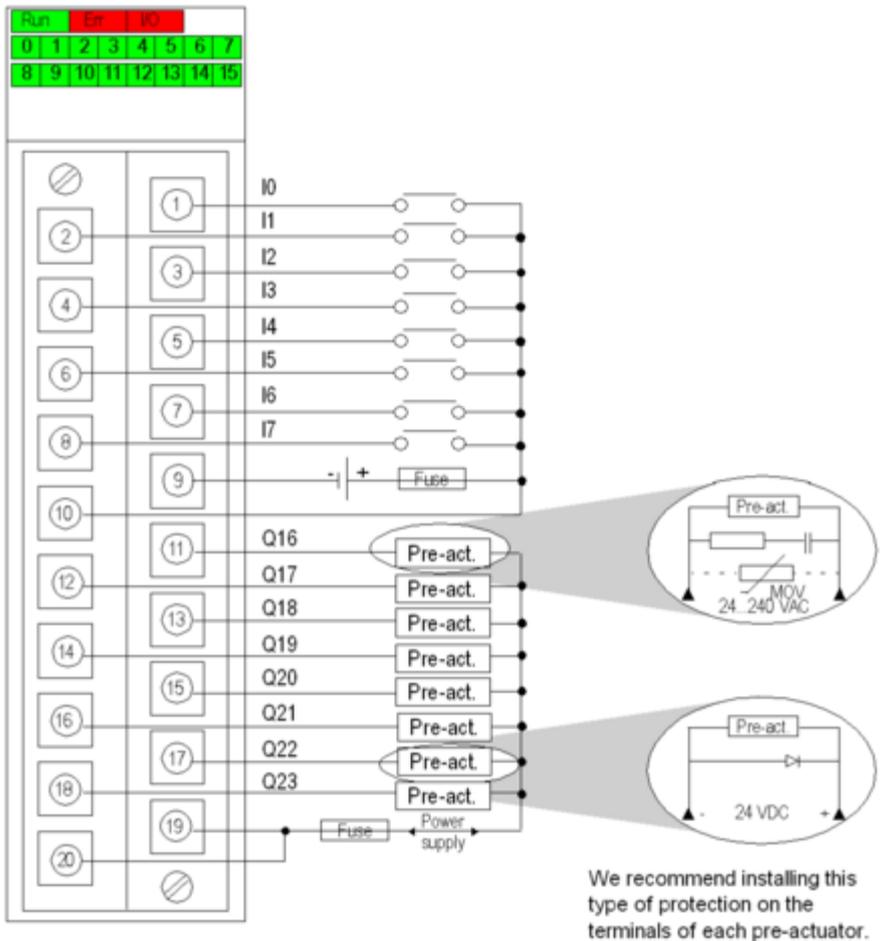
Input Circuit Diagram



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

Image of product / Alternate images

Alternative

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