

# Product data sheet

Specifications



discrete input module, Modicon X80,  
16 inputs, 125V DC positive,  
extended temperature

BMXDDI1604T

## Main

Range of product	Modicon X80
Product or component type	Discrete input module
Product specific application	Extended temperature
Discrete input number	16
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	125 V DC, discrete input logic: positive
Discrete input current	2.4 mA

## Complementary

Sensor power supply	100...150 V
Current state 1 guaranteed	$\geq 2$ mA
Current state 0 guaranteed	$\leq 0.5$ mA
Input impedance	50000 Ohm
Insulation resistance	$> 10$ MOhm 500 V DC
Power dissipation in W	3.2 W 70 °C 5.0 W 60 °C 6.7 W 50 °C 8.5 W 40 °C
DC typical response time	5 ms
DC maximum response time	9 ms
Paralleling of inputs	Yes
Typical current consumption	76 mA at 3.3 V DC
Current consumption	$\leq 107$ mA at 3.3 V DC
Protection type	reverse polarity protection fast blow 1 external fuse per group of channel 0.5 A
Voltage detection threshold	$< 80$ V DC sensor fault $> 100$ V DC sensor OK
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

<b>IP degree of protection</b>	IP20
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Environmental characteristic</b>	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
<b>Dielectric strength</b>	2500 V AC at 50/60 Hz 1 minute, primary/secondary
<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>	-25...70 °C
<b>Relative humidity</b>	5...95 % at 55 °C without condensation
<b>Protective treatment</b>	Conformal coating
<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>	5.500 cm
<b>Package 1 Width</b>	11.200 cm
<b>Package 1 Length</b>	11.800 cm
<b>Package 1 Weight</b>	147.000 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>	2.580 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## 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 32

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)

SCIP Number 3377ad7c-3df3-40dc-a26f-b9807ced8c10

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

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.

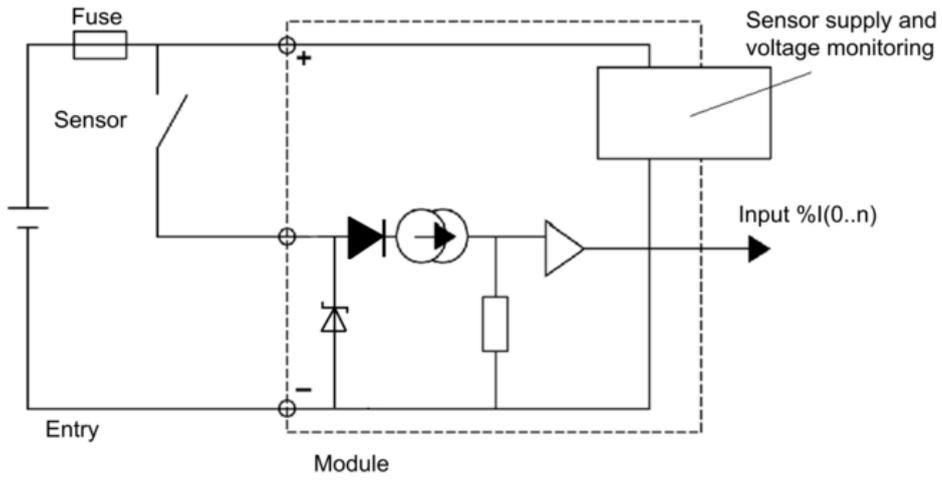
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema

Connecting the Module

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Input Circuit Diagram



Module Connection

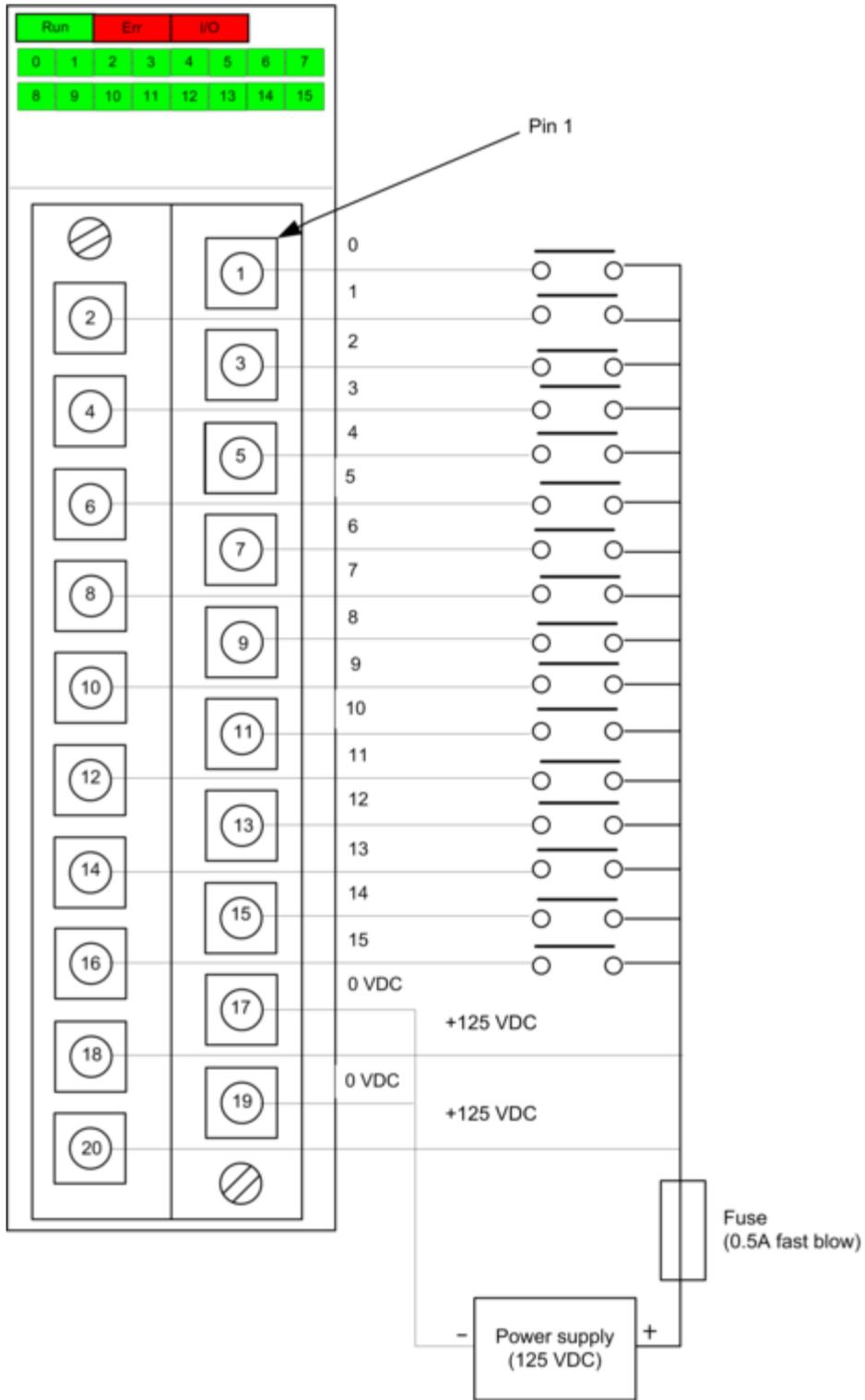


Image of product / Alternate images

Alternative

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