

Product datasheet

Specifications



discrete input module X80 - 64 inputs - 24 V DC positive

Local distributor code:

389737298

BMXDDI6402K

EAN Code: 3595863910445

Main

| | |
|---------------------------|---|
| Range of product | Modicon X80 |
| Product or component type | Discrete input module |
| Discrete input number | 64 |
| Discrete input type | Isolated |
| Input type | Current sink (logic positive) |
| Discrete input voltage | 24 V DC, discrete input logic: positive |
| Discrete input current | 0.6 mA |

Complementary

| | |
|-----------------------------|--|
| Sensor power supply | 19...30 V |
| Input impedance | 40000 Ohm |
| Insulation resistance | > 10 MOhm 500 V DC |
| Power dissipation in W | 4.3 W |
| DC typical response time | 4 ms |
| DC maximum response time | 7 ms |
| Paralleling of inputs | No |
| Typical current consumption | 160 mA at 3.3 V DC |
| MTBF reliability | 510000 H |
| Protection type | 1 external fuse per group of channel 0.5 A fast blow without reverse polarity protection |
| Voltage detection threshold | < 14 V DC sensor fault > 18 V DC sensor OK |
| Status LED | 1 LED (green) +32 channels indicator 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 | 0.145 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, primary/secondary 500 V DC 1 minute, between group of channels |

| | |
|---------------------------------------|--|
| 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 | 5.700 cm |
| Package 1 Width | 11.200 cm |
| Package 1 Length | 11.800 cm |
| Package 1 Weight | 180.000 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 | 3.481 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 66.000 kg |

Contractual warranty

| | |
|----------|-----------|
| 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 52

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 130c21ff-36ae-45a2-8c24-c392d61c9f1e

REACH Regulation [REACH Declaration](#)

Use Again

Repack and remanufacture

Recyclability potential, in % 3

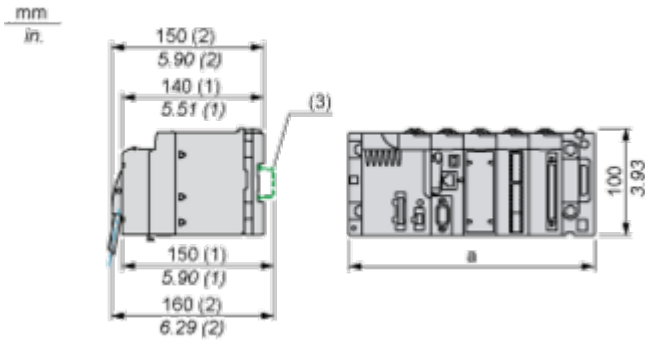
End of life manual availability [End of Life Information](#)

Take-back No

Dimensions Drawings

Modules Mounted on Racks

Dimensions



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

(2) With FCN connector.

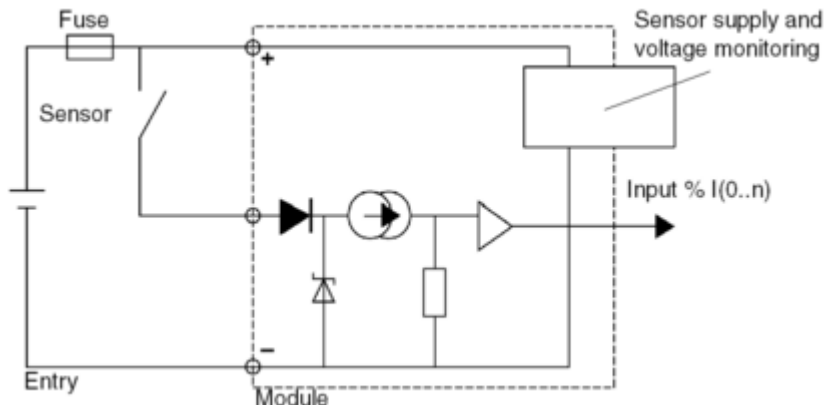
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| 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 |

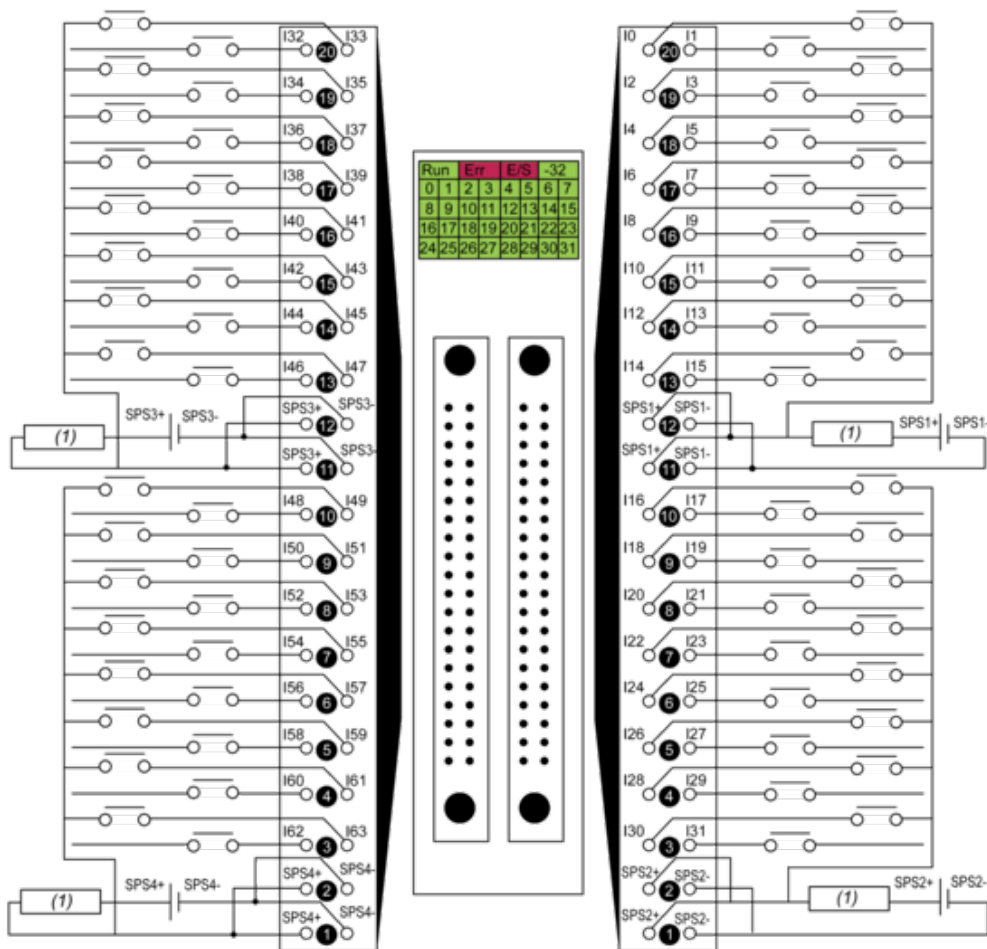
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



(1) fuse: fast blow fuse of 0.5 A for each 16-channel group
 power supply 24 VDC
 SPS sensor power supply

Image of product / Alternate images

Alternative



