

Product datasheet

Specifications



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

BMXDDI6402K

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 channel0.5 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 |

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

| | |
|---------------------------------------|--|
| 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 | 5.481 cm |
| Package 1 Width | 11.199 cm |
| Package 1 Length | 11.666 cm |
| Package 1 Weight | 190.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 15 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 3.481 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 240 |
| Package 3 Height | 75.0 cm |
| Package 3 Width | 60.0 cm |
| Package 3 Length | 80.0 cm |
| Package 3 Weight | 66 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

| | |
|---|----|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 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 |
|-------------|--------------------------------------|

| | |
|-----------------------|--|
| China RoHS Regulation | China RoHS declaration |
|-----------------------|--|

Use Again

Repack and remanufacture

| | |
|---------------------|---|
| Circularity Profile | End of Life Information |
|---------------------|---|

WEEE



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

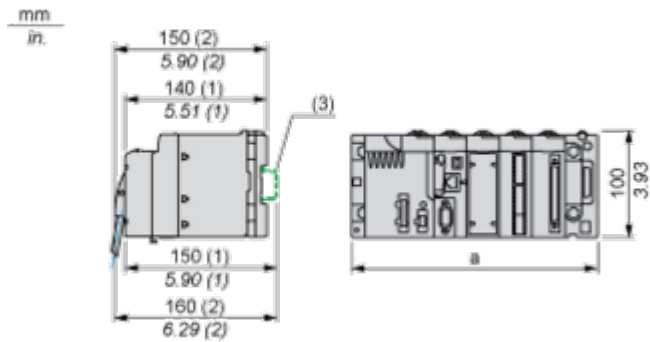
Take-back

No

Dimensions Drawings

Modules Mounted on Racks

Dimensions



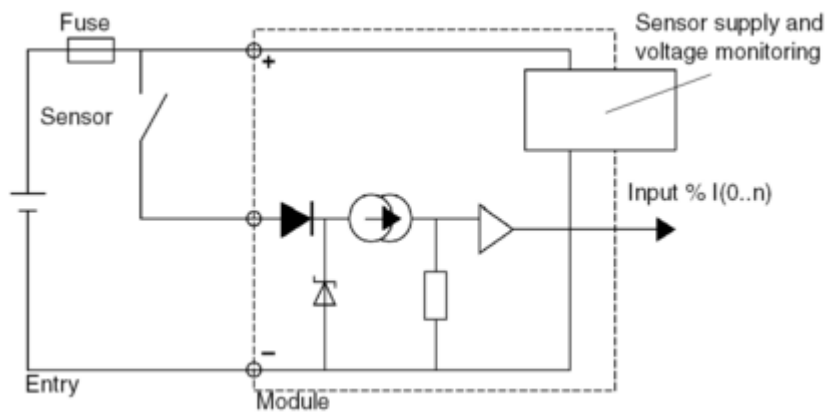
- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| 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 |

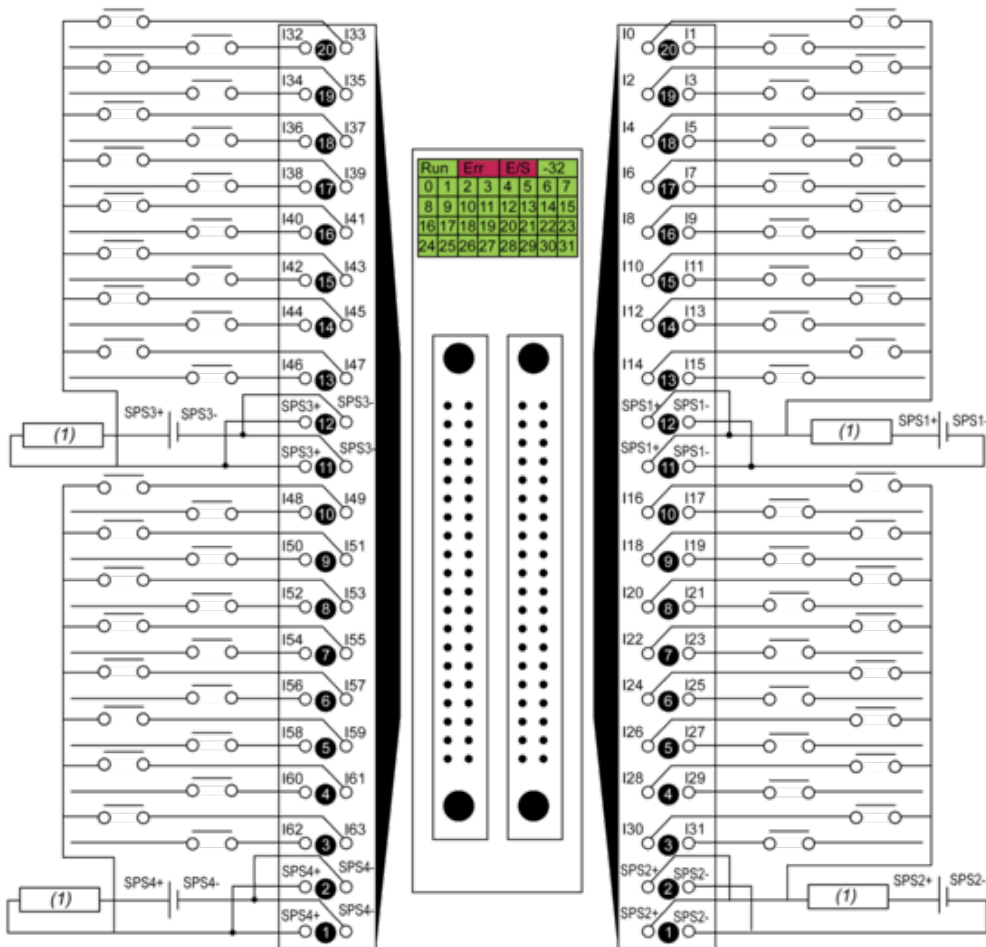
Connections and Schema

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



