# BMXDDI3202K
## Discrete input module, Modicon X80, 32 inputs, 24V DC positive

Green Premium™ Product

## Main

| | |
|---|---|
| Range of Product | Modicon X80 |
| Product or Component Type | Discrete input module |
| Discrete input number | 32 |
| Discrete input type | Isolated |
| Input type | Current sink (logic positive) |
| Discrete input voltage | 24 V DC positive |
| Discrete input current | 2.5 mA |

## Complementary

| | |
|---|---|
| Input compatibility | With 2-wire/3-wire proximity sensors IEC 60947-5-2<br>With 2-wire/3-wire proximity sensors IEC 61131-2 Type 1 |
| Sensor power supply | 19...30 V |
| Current state 1 guaranteed | >= 2 mA |
| Current state 0 guaranteed | <= 0.5 mA |
| Input impedance | 9600 Ohm |
| Insulation resistance | > 10 MOhm 500 V DC |
| Power dissipation in W | 3.9 W |
| DC typical response time | 4 ms |
| DC maximum response time | 7 ms |
| Paralleling of inputs | No |
| Typical current consumption | 121 mA 3.3 V DC |
| MTBF reliability | 905000 H |
| Protection type | 1 external fuse per group of channel 0.5 A fast blow<br>Reverse polarity protection |
| Voltage detection threshold | < 14 V DC sensor fault<br>> 18 V DC sensor OK |
| Status LED | 1 LED (Green) module operating (RUN)<br>1 LED per channel (Green) channel diagnostic<br>1 LED (Red) module error (ERR)<br>1 LED (Red) module I/O |
| Net Weight | 0.25 lb(US) (0.112 kg) |

## Environment

| | |
|---|---|
| IP Degree of Protection | IP20 |
| Directives | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility |
| Dielectric strength | 1500 V AC 50/60 Hz 1 minute, primary/secondary<br>500 V DC 1 minute, between group of channels |
| Vibration resistance | 3 gn |
| Shock resistance | 30 gn |
| Ambient Air Temperature for Storage | -40…185 °F (-40…85 °C) |
| Ambient Air Temperature for Operation | 32…140 °F (0…60 °C) |
| Relative humidity | 5…95 % 131 °F (55 °C) without condensation |
| Operating altitude | 0...6561.68 ft (0...2000 m)<br>2000...5000 m with derating factor |

## Ordering and shipping details

| | |
|---|---|
| Category | 18160-MODICON M340 |
| Discount Schedule | PC34 |
| GTIN | 3595863910018 |
| Returnability | Yes |
| Country of origin | ID |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.12 in (5.373 cm) |
| Package 1 Width | 4.32 in (10.974 cm) |
| Package 1 Length | 4.55 in (11.554 cm) |
| Package 1 Weight | 5.45 oz (154.4 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 15 |
| Package 2 Height | 5.91 in (15.0 cm) |
| Package 2 Width | 11.81 in (30.0 cm) |
| Package 2 Length | 15.75 in (40.0 cm) |
| Package 2 Weight | 5.51 lb(US) (2.5 kg) |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| 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 |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| 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. |

## Contractual warranty

| | |
|---|---|
| Warranty | 18 months |

## Modules Mounted on Racks

### Dimensions



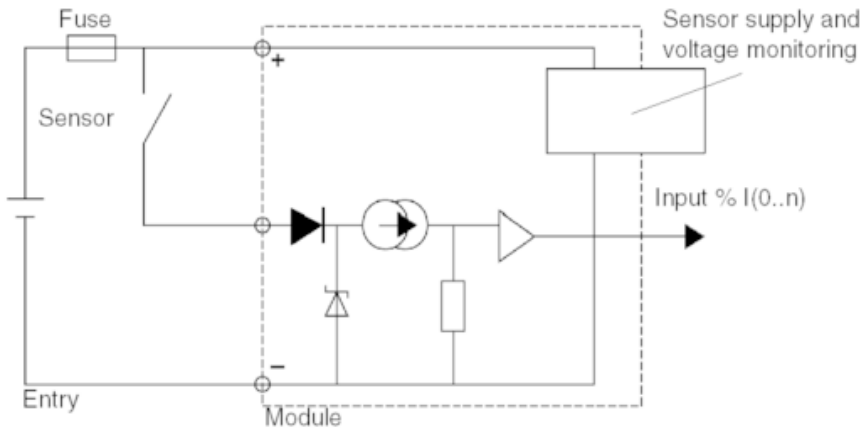(1) With removable terminal block (cage, screw or spring).

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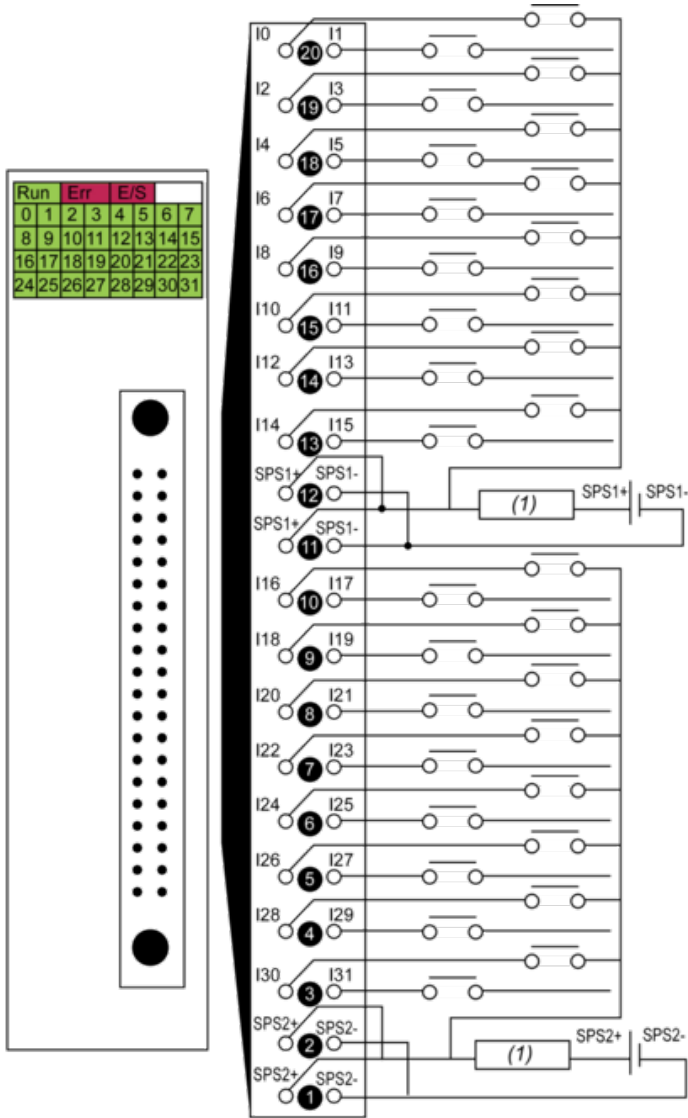
| Rack references | a in mm | a in in. |
|---|---|---|
| BMXXBP0400 and BMXXBP0400H | 242.4 | 09.54 |
| BMXXBP0600 and BMXXBP0600H | 307.6 | 12.11 |
| BMXXBP0800 and BMXXBP0800H | 372.8 | 14.68 |
| BMXXBP1200 and BMXXBP1200H | 503.2 | 19.81 |

## 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