# BMXDAI1604H

discrete input module M340 - 16 inputs - 100..120 V AC capacitive

Green Premium™ Product

## Main

| | |
|---|---|
| Range of product | Modicon X80 |
| Product or component type | Discrete input module |
| Product specific application | For severe environments |
| Discrete input number | 16 |
| Discrete input type | Isolated |
| Input type | Capacitive |
| Discrete input voltage | 100...120 V AC |
| Discrete input current | 5 mA |
| Input compatibility | With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 |

## Complementary

| | |
|---|---|
| Network frequency | 50/60 Hz |
| Network frequency limits | 47...63 Hz |
| Sensor power supply | 20...26 V |
| Voltage state 1 guaranteed | >= 74 V |
| Current state 1 guaranteed | >= 2.5 mA |
| Voltage state 0 guaranteed | <= 20 V |
| Current state 0 guaranteed | <= 1 mA |
| Input impedance | 13000 Ohm |
| Insulation resistance | > 10 MOhm 500 V DC |
| Power dissipation in W | <= 3.8 W |
| AC activation filtering time | 10 ms |
| AC deactivation filtering time | 20 ms |
| Typical current consumption | 90 mA at 3.3 V DC |
| MTBF reliability | 1504958 H |
| Protection type | 1 external fuse per group of channel 0.5 A fast blow |
| Voltage detection threshold | < 40 V DC sensor fault<br>> 82 V DC sensor OK |
| Status LED | 1 LED red for module error (ERR)<br>1 LED green for module operating (RUN)<br>1 LED per channel green for channel diagnostic<br>1 LED red for module I/O |
| Product weight | 0.115 kg |

## Environment

| | |
|---|---|
| directives | 2012/19/EU - WEEE directive<br>2014/30/EU - electromagnetic compatibility<br>2014/35/EU - low voltage directive |
| IP degree of protection | IP20 |
| product certifications | ATEX<br>CE<br>CSA<br>UL<br>RCM<br>IEC-Ex<br>Merchant Navy<br>EAC |
| standards | EN 61000-6-2 |

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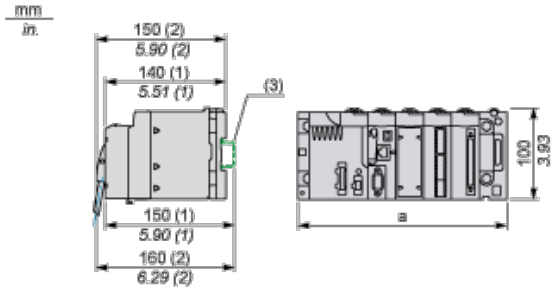| | EN 61000-6-4<br>EN 61131-2<br>EN 61010-2-201 |
|---|---|
| dielectric strength | 1500 V AC at 50/60 Hz 1 min |
| vibration resistance | 3 gn |
| shock resistance | 30 gn |
| ambient air temperature for storage | -40...85 °C |
| ambient air temperature for operation | -25...70 °C |
| relative humidity | 5...95 % without condensation 55 °C |
| protective treatment | Conformal coating Humiseal 1A33<br>TC |
| environmental characteristic | Corrosion resistance<br>Dust resistant |
| operating altitude | 0...2000 m<br>2000...5000 m (with derating factor) |

## Offer Sustainability

| Sustainable offer status | Green Premium product |
|---|---|
| RoHS (date code: YYWW) | Compliant - since 0901 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

## Contractual warranty

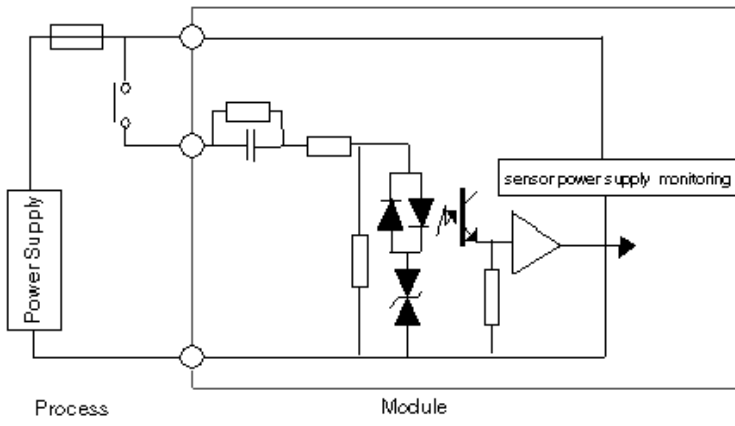| Warranty period | 18 months |
|---|---|

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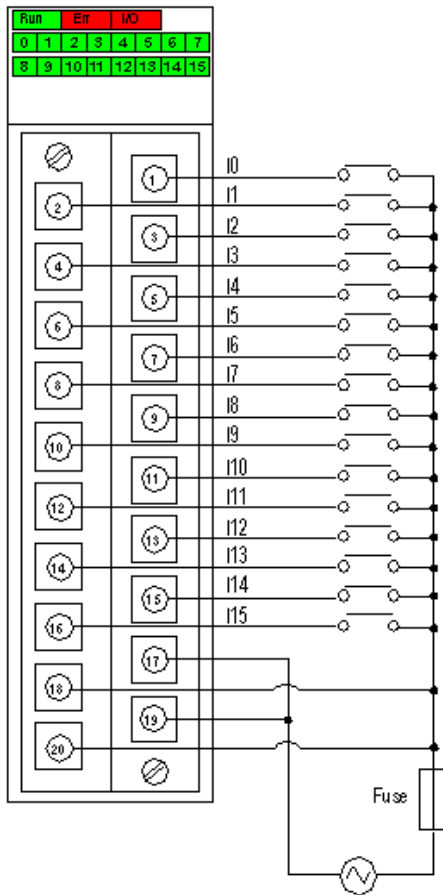
| Rack references | a in mm | a in in. |
|---|---|---|
| BMXXBP0400 and BMXXBP0400H | 242.4 | 09.54 |
| BMXXBP0600 and BMXXBP0600H | 307.6 | 12.11 |
| BMXXBP0800 and BMXXBP0800H | 372.8 | 14.68 |
| BMXXBP1200 and BMXXBP1200H | 503.2 | 19.81 |

## Connecting the Module

### Input Circuit Diagram

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**Module Connection**



**power** 100...120 VAC
**supply**

**fuse** fast blow fuse of 0.5 A