# Product data sheet
## Characteristics

# BMXDAI0814
discrete input module X80 - 8 inputs - 100...120 V AC isolated

Green Premium™ Product

## Main

| | |
|---|---|
| Range of product | Modicon X80 |
| Product or component type | Discrete input module |
| Discrete input number | 8 |
| Discrete input type | Isolated per channel |
| 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 | 85…132 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 |
| Maximum power dissipation in W | 2.35 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 | 1700000 H |
| Protection type | 1 external fuse per channel0.25 A fast blow |
| 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: |
| Product weight | 0.115 kg |

## Environment

| | |
|---|---|
| IP degree of protection | IP20 |
| Directives | 2014/35/EU - low voltage directive <br> 2014/30/EU - electromagnetic compatibility <br> 2012/19/EU - WEEE directive |
| Product certifications | EAC <br> CE <br> UL <br> CSA <br> RCM <br> Merchant Navy |
| Standards | EN 61131-2 <br> EN 61000-6-4 <br> EN 61000-6-2 <br> EN 61010-2-201 |
| Dielectric strength | 1780 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 | 0…60 °C |
| Relative humidity | 5…95 % at 55 °C without condensation |
| Protective treatment | TC |
| Operating altitude | 0...2000 m<br>2000...5000 m with derating factor |

## Offer Sustainability

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

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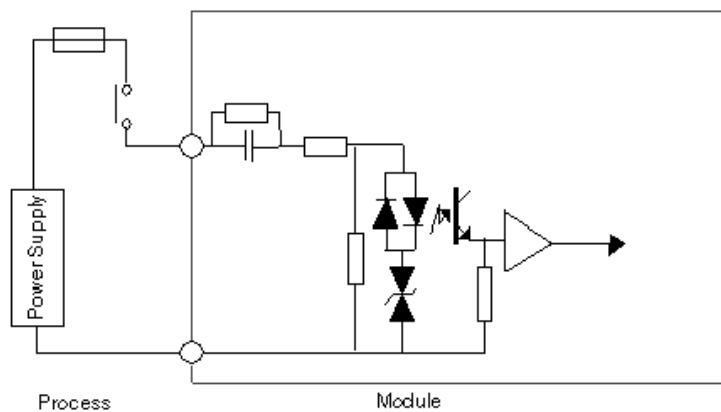
## Modules Mounted on Racks

### Dimensions



(1)  with removable terminal block (cage, screw or spring)
(2)  with FCN connector
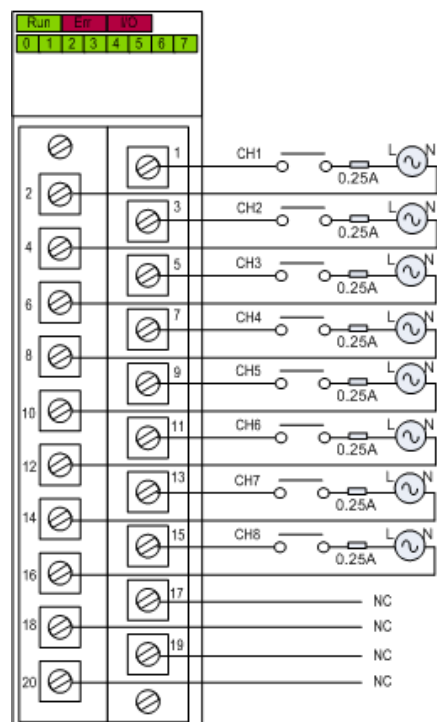(3)  on AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMEXBP0400/0400H/0800/0800H/1200/1200H rack.

|  | a (in mm) | a (in in.) |
|---|---|---|
| BMEXBP0400 and BMEXBP0400H | 242.4 | 09.54 |
| BMEXBP0800 and BMEXBP0800H | 372.8 | 14.68 |
| BMEXBP1200 and BMEXBP1200H | 503.2 | 19.81 |

## Connecting the Module

### Input Circuit Diagram



Process          Module

### Module Connection



power supply: 100...120 VAC
fuse: fast blow fuse of 0.25A
NC  not connected

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