# Product data sheet

Specifications



## Discrete mixed I/O module, Modicon X80, 8 inputs, 24V DC, 8 relay outputs, 24 to 240V AC positive, for severe environments

BMXDDM16025H

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range of Product** | Modicon X80 |
| **Product or Component Type** | Discrete I/O module |
| **Discrete input number** | 8 |

## Complementary

| | |
|---|---|
| **Input impedance** | 6800 Ohm |
| **Paralleling of inputs** | No |
| **Minimum switching current** | 1 mA 5 V DC |
| **Response time on output** | <= 8 ms deactivation<br><= 10 ms activation |
| **Insulation resistance** | > 10 MOhm 500 V DC |
| **DC typical response time** | 4 ms |
| **DC maximum response time** | 7 ms |
| **Switching frequency** | 1 Hz |
| **Maximum switching voltage** | 125 V DC<br>264 V AC |
| **MTBF reliability** | 940000 H |
| **Protection type** | 1 external fuse per group of input channel 0.5 A fast blow<br>reverse polarity protection on input<br>1 external fuse per output channel or group of output channel fast blow |
| **Voltage detection threshold** | < 14 V DC sensor fault<br>> 18 V DC sensor OK |
| **Product Weight** | 0.298 lb(US) (0.135 kg) |

## Environment

| | |
|---|---|
| **IP Degree of Protection** | IP20 |
| **Protective treatment** | Conformal coating |
| **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>2830 V AC 50/60 Hz 1 minute, output relay<br>500 V DC 1 minute, between group of I/O |
| **Relative humidity** | 5…95 % 131 °F (55 °C) without condensation |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|---|---|
| **Environmental characteristic** | Gas resistant class Gx<br>Gas resistant class 3C4<br>Dust resistant class 3S4<br>Sand resistant class 3S4<br>Salt resistant level 2<br>Mold growth resistant class 3B2<br>Fungal spore resistant class 3B2 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PC3418160 |
| **Discount Schedule** | PC34 |
| **GTIN** | 3595864025742 |
| **Returnability** | No |
| **Country of origin** | US |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 2.165 in (5.500 cm) |
| **Package 1 Width** | 4.331 in (11.000 cm) |
| **Package 1 Length** | 4.724 in (12.000 cm) |
| **Package weight(Lbs)** | 5.926 oz (168.000 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 15 |
| **Package 2 Height** | 5.906 in (15.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 5.787 lb(US) (2.625 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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 | **35 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **21 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **13 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.3 kg CO2 eq.** |
| 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 | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| 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** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

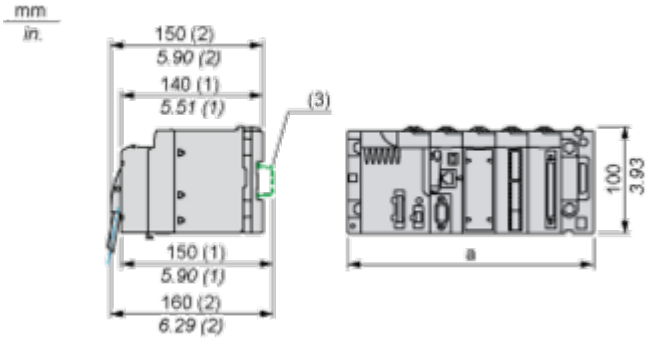
### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **3** |
| Circularity Profile | End of Life Information |
| Take-back | **No** |

## Dimensions Drawings

### Modules Mounted on Racks

### Dimensions



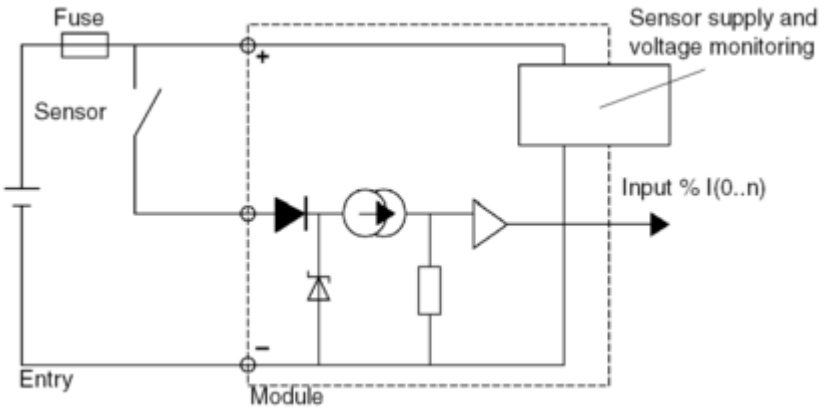

**(1)** With removable terminal block (cage, screw or spring).
**(2)** With FCN connector.
**(3)** On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

| 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 |

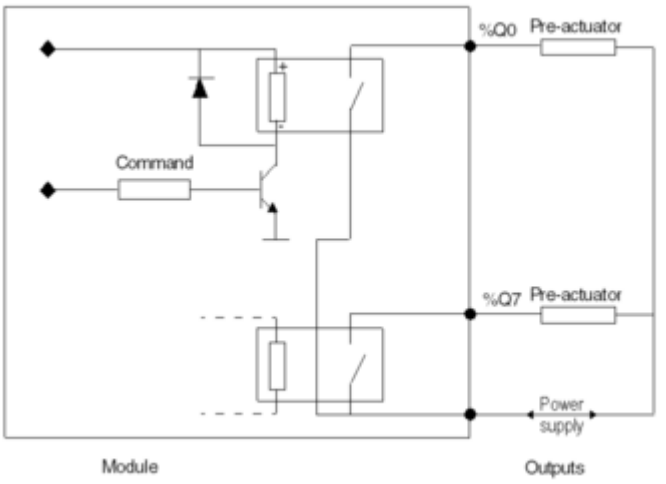
Connections and Schema

## Connecting the Module

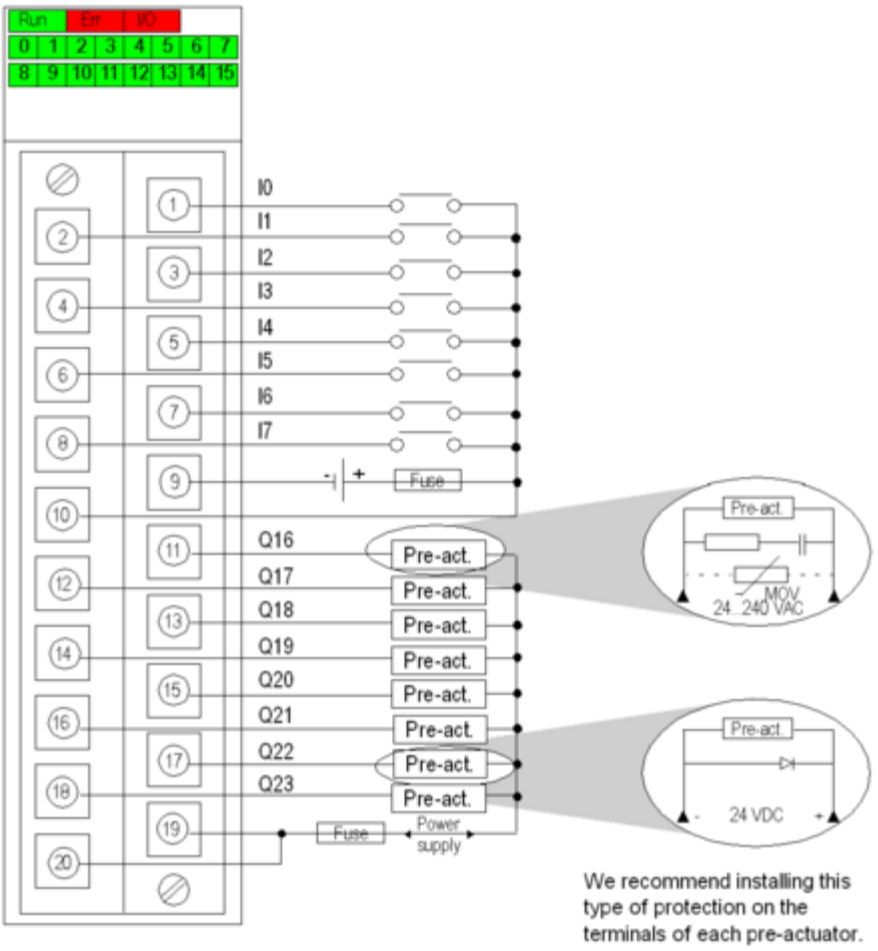
### Input Circuit Diagram




### Output Circuit Diagram




### Module Connection




**input power supply** 24 VDC
**output power supply** 24 VDC or 24...240 VAC
**input fuse** 1 fast blow fuse of 0.5 A
**output fuse** 1 fast blow fuse of 12 A
**pre-act** pre-actuator

Image of product / Alternate images

**Alternative**













SN:XXXXXXXXXXX
PV:XX
RL:XX