

# Product data sheet

Specifications



## Discrete input module, Modicon X80, 16 isolated inputs, 100 to 120V AC

BMXDAI16142

**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     | 16                  |

### Complementary

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Input impedance               | 11...13.4 kOhm                                        |
| Insulation resistance         | > 10 MOhm 500 V DC                                    |
| AC activation response time   | 21 ms                                                 |
| AC deactivation response time | 35 ms                                                 |
| MTBF reliability              | 3700000 H                                             |
| Protection type               | 1 external fuse per group of channel 0.25 A fast blow |
| Voltage detection threshold   | < 40 V AC sensor fault<br>> 85 V AC sensor OK         |
| Product Weight                | 0.346 lb(US) (0.157 kg)                               |

### Environment

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| IP Degree of Protection | IP20                                                  |
| Protective treatment    | Standard version                                      |
| Dielectric strength     | 1780 V AC 60 Hz 1 min                                 |
| Relative humidity       | 5...95 % 32...140 °F (0...60 °C) without condensation |

### Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC3418160  |
| Discount Schedule | PC34          |
| GTIN              | 3606480025730 |
| Returnability     | No            |
| Country of origin | FR            |

### Packing Units

|                        |                      |
|------------------------|----------------------|
| Unit Type of Package 1 | PCE                  |
| Nbr. of units in pkg.  | 1                    |
| Package 1 Height       | 2.244 in (5.700 cm)  |
| Package 1 Width        | 6.969 in (17.700 cm) |

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

|                              |                         |
|------------------------------|-------------------------|
| Package 1 Length             | 10.236 in (26.000 cm)   |
| Package weight(Lbs)          | 10.335 oz (293.000 g)   |
| Unit Type of Package 2       | S03                     |
| Number of Units in Package 2 | 8                       |
| Package 2 Height             | 11.811 in (30.000 cm)   |
| Package 2 Width              | 11.811 in (30.000 cm)   |
| Package 2 Length             | 15.748 in (40.000 cm)   |
| Package 2 Weight             | 6.482 lb(US) (2.940 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                       | 28 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 17 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0.3 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 11 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.3 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                         |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                                                         |
| SCIP Number                            | 43b0fbab-d94b-43e8-be0a-0b39cadd288b                                                                                                                                                                                                                                                        |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                                                                                                                                                                                                                      |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                      |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

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

## Use Again

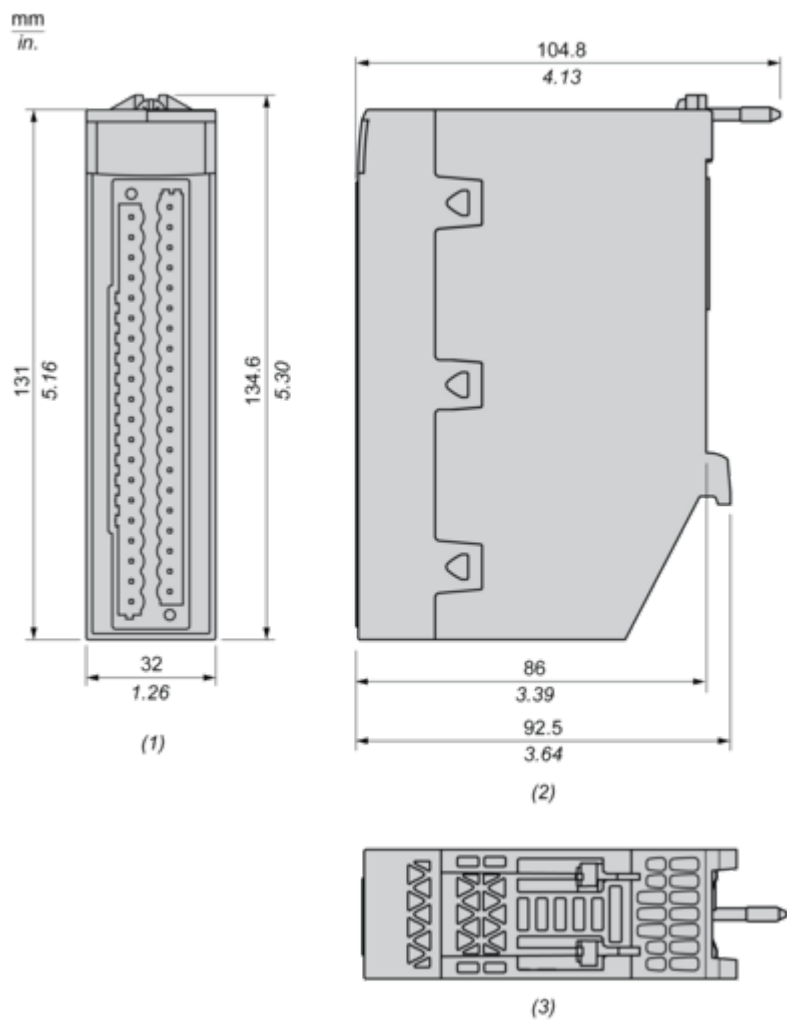


### Repack and remanufacture

|                               |                                         |
|-------------------------------|-----------------------------------------|
| Recyclability potential, in % | 0                                       |
| Circularity Profile           | <a href="#">End of Life Information</a> |
| Take-back                     | No                                      |

Dimensions Drawings

Dimensions

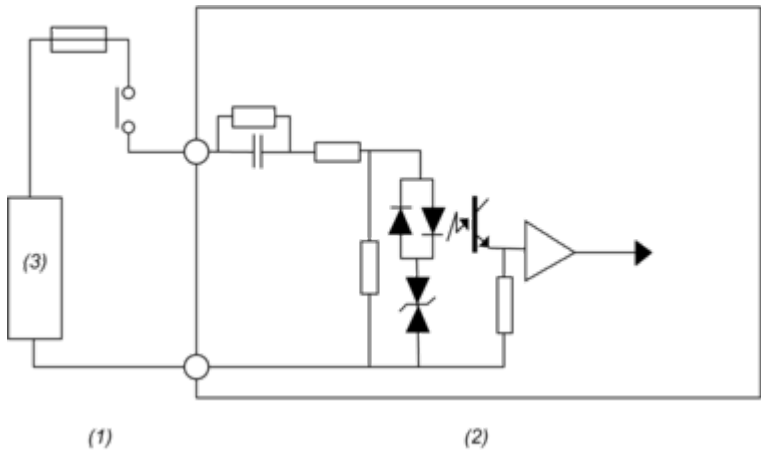


- (1) Front view
- (2) Right view
- (3) Top view

Connections and Schema

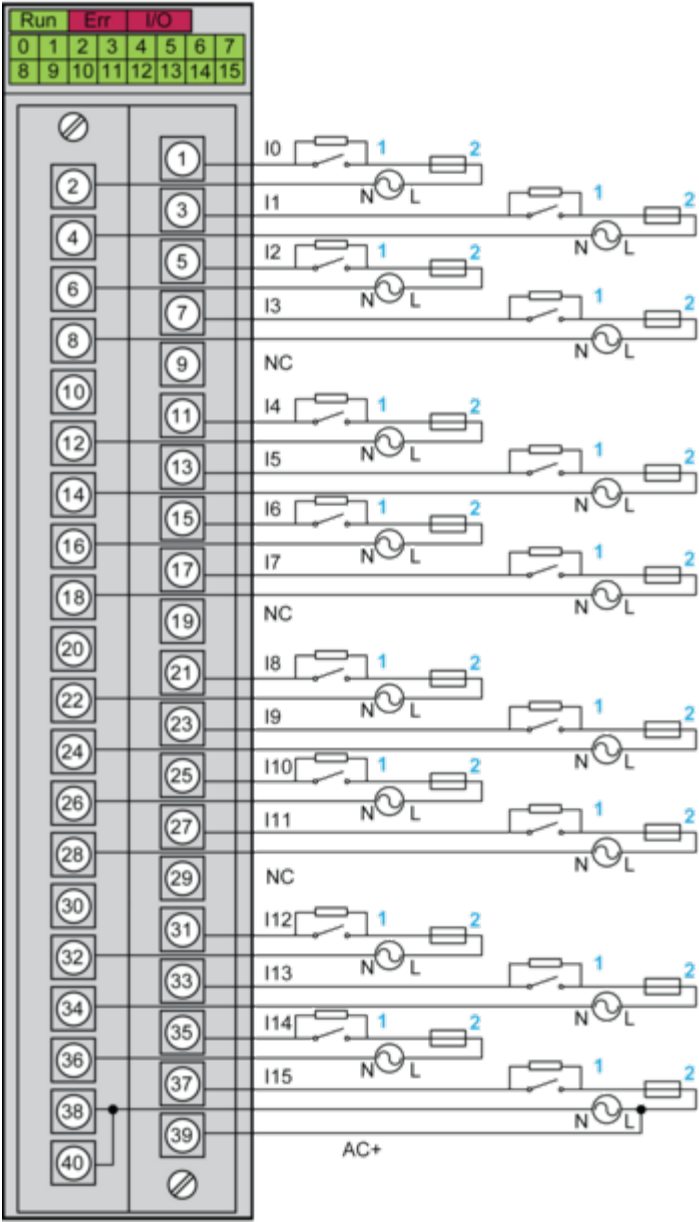
Connecting the Module

Input Circuit Diagram



- (1) Process
- (2) Module
- (3) Power supply

Module Connection



1 : External resistor for open wire detection function  
2 : Fast blow fuse of 0.25A  
AC+ : Input pin for IO supply monitoring function on channel 15  
NC : Not connected  
Power supply : 100...120 Vac  
NOTE : The maximum input voltage is 132 Vrms@63 Hz. Any over voltage will damage the module.

Image of product / Alternate images

Alternative

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