Product data sheet

Specifications

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

BMXDAI1614

Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Capacitive
Discrete input voltage	100...120 V AC
Discrete input current	2 mA

Complementary

Input compatibility	2-wire proximity sensor conforming to IEC 60947-5-2 2-wire proximity sensor conforming to IEC 61131-2 Type 1
Network frequency	50/60 Hz
Network frequency limits	47…63 Hz
Sensor power supply	85...132 V
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1 mA
Input impedance	14000 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	5 W
AC activation response time	10 ms
AC deactivation response time	20 ms
Typical current consumption	76 mA at 3.3 V DC
MTBF reliability	3700000 H
Protection type	1 external fuse per group of channel0.25 A fast blow
Voltage detection threshold	< 40 V AC sensor fault > 85 V AC sensor OK
Status LED	1 LED (green) module operating (RUN) 1 LED per channel (green) channel diagnostic 1 LED (red) module error (ERR) 1 LED (red) module I/O
Net weight	0.157 kg

Environment

IP degree of protection	IP20

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	0…95 % at 0…60 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating factor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	18.000 cm
Package 1 Length	26.000 cm
Package 1 Weight	297.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.850 kg

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
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	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	43b0fbab-d94b-43e8-be0a-0b39cadd288b
REACh Regulation	REACh Declaration
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

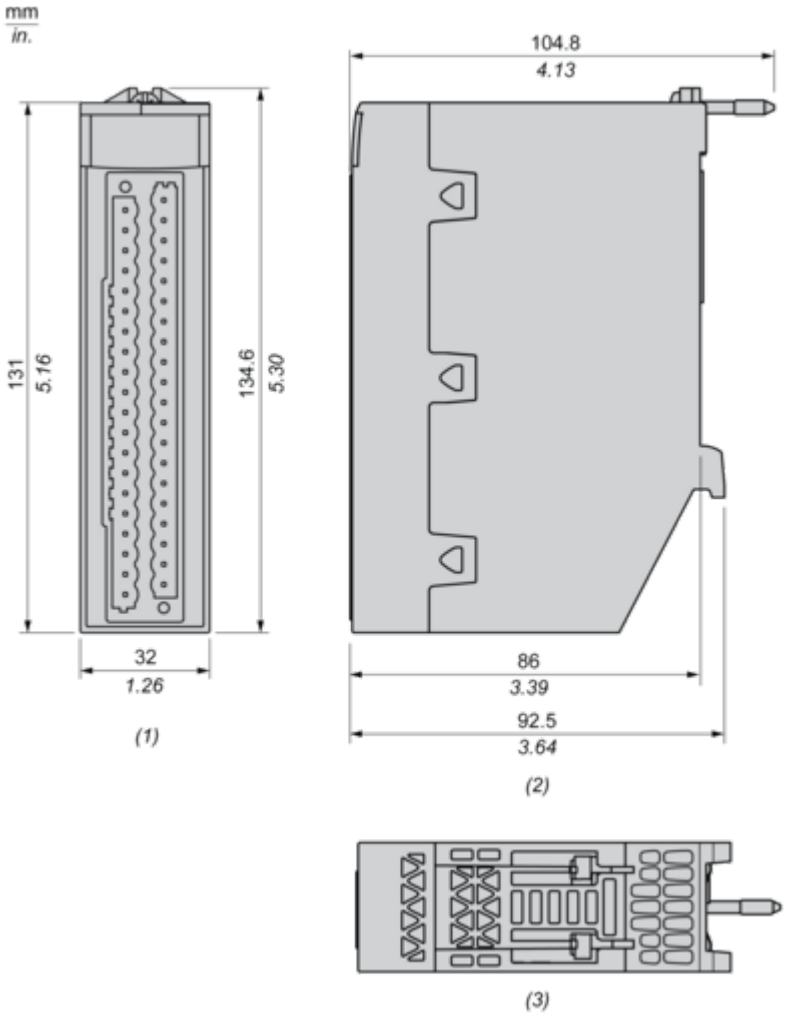
Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No

Dimensions Drawings

Dimensions

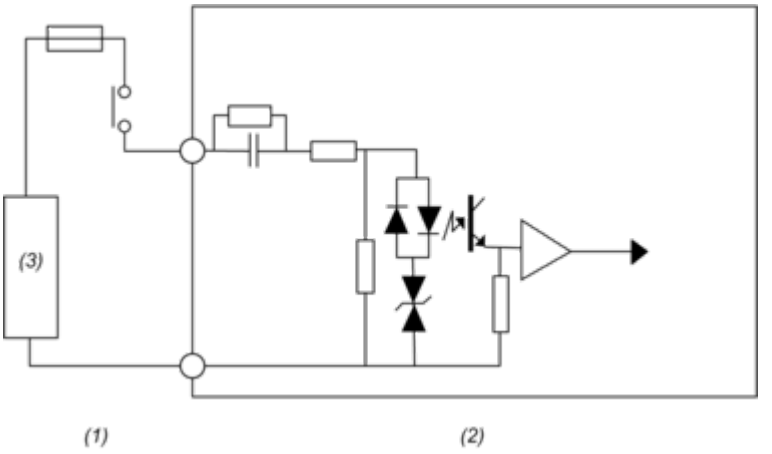


(1) Front view
(2) Right view
(3) Top view

Connections and Schema

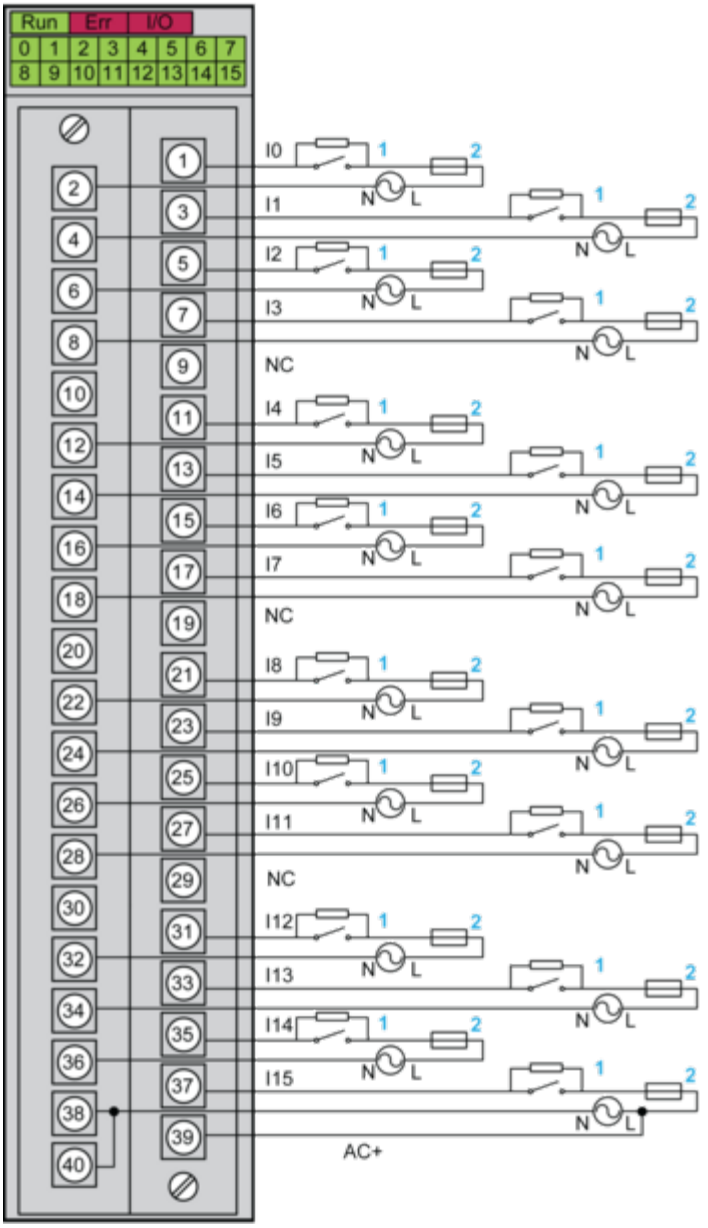
Connecting the Module

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


SN:XXXXXXXXXXX
PV:XX
RL:XX