

Product data sheet

Specifications



discrete input module, Modicon X80,
64 inputs, 24V DC positive, for
severe environments

BMXDDI6402KH

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon X80
Product or Component Type	Discrete input module
Device Application	Industrial application in severe environment
Discrete input number	64
Discrete input voltage	24 V DCisolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	64 isolated at 24 V DC
Discrete input current	0.6 mA at 24 V DC
Voltage state 1 guaranteed	>= 15 V
Voltage state 0 guaranteed	<= 4 V
Input impedance	40000 Ohm
Paralleling of inputs	No
Insulation resistance	> 10 MOhm 500 V DC
DC typical response time	4 ms
DC maximum response time	7 ms
Sensor power supply	19...30 V
Typical current consumption	160 mA DC
Current consumption	3.3 V DC
Power dissipation in W	4.3 W
Isolation between channels and bus	1500 V for 1 minute
MTBF reliability	510000 H
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC sensor OK
Local signalling	1 LED (green) for +32 channels indicator 1 LED (green) for module operating (RUN) 1 LED per channel (green) for channel diagnostic 1 LED (red) for module error (ERR) 1 LED (red) for module I/O
Height	5.3 in (134.6 mm)
Width	1.3 in (32 mm)
Depth	3.4 in (86 mm)
Product Weight	0.320 lb(US) (0.145 kg)

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

Environment

IP Degree of Protection	IP20
Protective treatment	Conformal coating
Marking	CE UKCA CULus RCM EAC
Product certifications	ATEX zone 2 IECEEx zone 2 CCC Ex zone 2 (pending) CULus HazLoc
Standards	IEC 61131-2
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC 50/60 Hz 1 minute, primary/secondary 500 V DC 1 minute, between group of channels
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % -13...158 °F (-25...70 °C) without condensation
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606480927812
Returnability	Yes
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	4.724 in (12.000 cm)
Package 1 Length	4.331 in (11.000 cm)
Package weight(Lbs)	6.737 oz (191.000 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	6.900 lb(US) (3.130 kg)

Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	35.433 in (90.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	129.081 lb(US) (58.550 kg)

Contractual warranty

Warranty (in months)	18
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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	52 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	24 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	27 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
SCIP Number	43b0fbab-d94b-43e8-be0a-0b39cadd288b
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
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Use Again



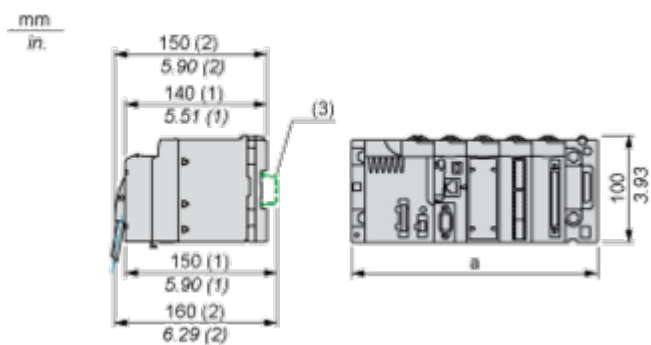
Repack and remanufacture

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

Dimensions Drawings

Modules Mounted on Racks

Dimensions



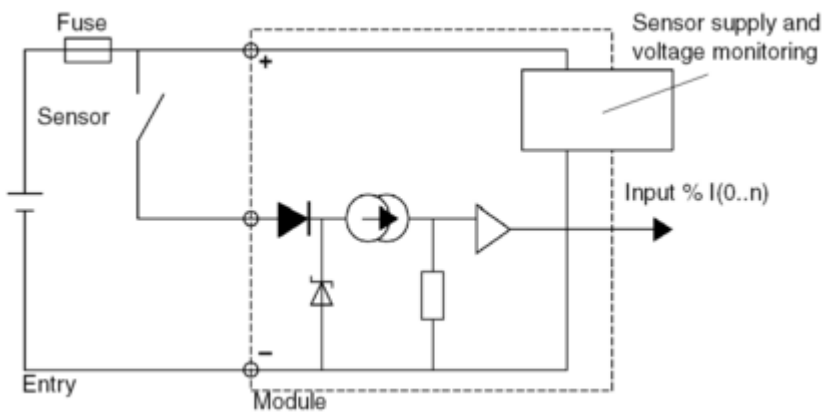
- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

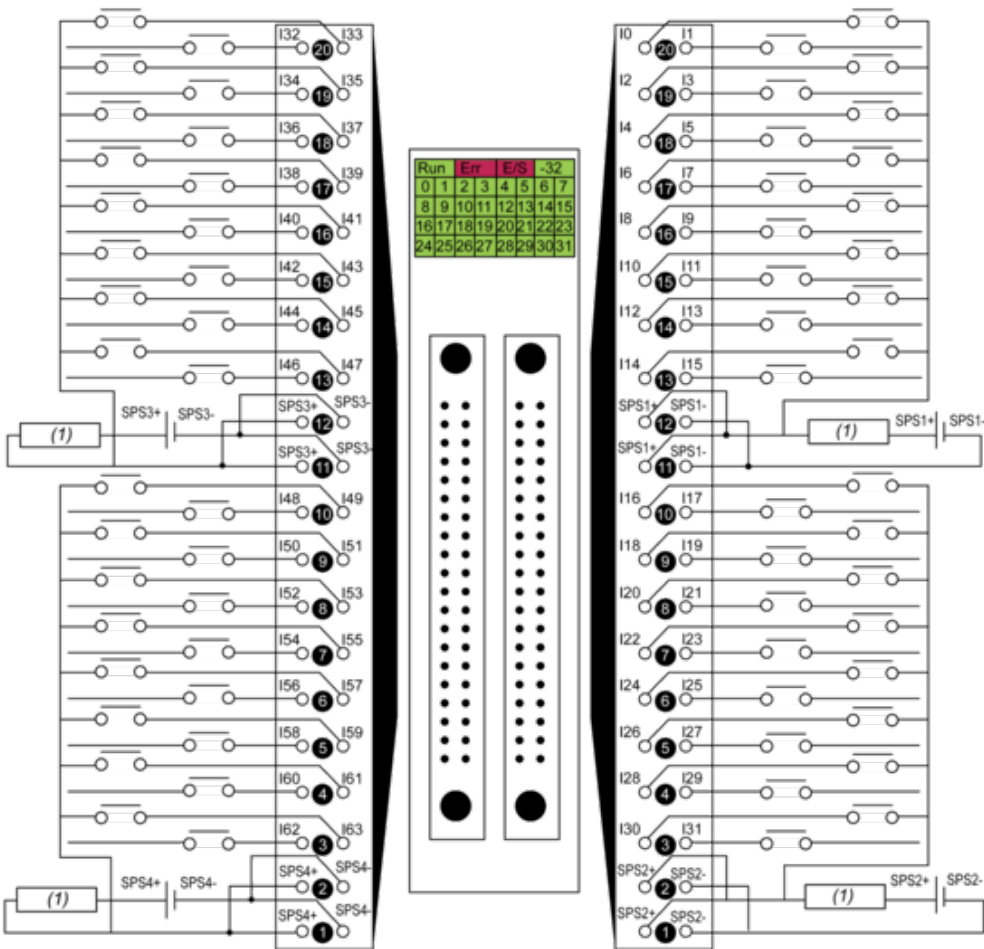
Connections and Schema

Connecting the Module

Input Circuit Diagram



Module Connection



(1) fuse: fast blow fuse of 0.5 A for each 16-channel group
power supply 24 VDC
SPS sensor power supply

Image of product / Alternate images

Alternative





