

Product data sheet

Specifications



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

BMXDDI6402K

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon X80
Product or Component Type	Discrete input module
Discrete input number	64
Discrete input voltage	24 V DC isolated
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
Power dissipation in W	4.3 W
Isolation between channels and bus	1500 V for 1 minute
Hot swapping fallback	Yes
MTBF reliability	510000 H
Protection type	1 external fuse per group of channel 0.5 A fast blow without reverse polarity protection
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)

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

Product Weight	0.320 lb(US) (0.145 kg)
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Environment

IP Degree of Protection	IP20
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Protective treatment	Standard version
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Marking	CE UKCA CULus RCM EAC
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Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
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Dielectric strength	1500 V AC 50/60 Hz 1 minute, primary/secondary 500 V DC 1 minute, between group of channels
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Ambient air temperature for operation	32...140 °F (0...60 °C)
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Ambient air temperature for storage	-40...185 °F (-40...85 °C)
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Relative humidity	5...95 % 131 °F (55 °C) without condensation
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Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating
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Pollution degree	2
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Vibration resistance	3 gn
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Shock resistance	30 gn
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Ordering and shipping details

Category	US1PC3418160
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Discount Schedule	PC34
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GTIN	3595863910445
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Returnability	Yes
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Country of origin	US
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Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
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Package 1 Height	2.244 in (5.700 cm)
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Package 1 Width	4.409 in (11.200 cm)
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Package 1 Length	4.646 in (11.800 cm)
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Package weight(Lbs)	6.349 oz (180.000 g)
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Unit Type of Package 2	S02
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Number of Units in Package 2	15
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Package 2 Height	5.906 in (15.000 cm)
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Package 2 Width	11.811 in (30.000 cm)
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Package 2 Length	15.748 in (40.000 cm)
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Package 2 Weight	7.674 lb(US) (3.481 kg)
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Unit Type of Package 3	P06
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Number of Units in Package 3	240
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Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	145.505 lb(US) (66.000 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	130c21ff-36ae-45a2-8c24-c392d61c9f1e
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

Image of product / Alternate images

Alternative





