

# discrete input module X80 - 64 inputs - 24 V DC positive - severe

BMXDDI6402KH

EAN Code: 3606480927812

# Main

Range of product	Modicon X80
Product or component type	Discrete input module
Product specific application	For severe environments
Discrete input number	64
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC, discrete input logic: positive
Discrete input current	0.6 mA

# Complementary

Sensor power supply	1930 V
Input impedance	40000 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	4.3 W
DC typical response time	4 ms
DC maximum response time	7 ms
Paralleling of inputs	No
Typical current consumption	160 mA at 3.3 V DC
MTBF reliability	510000 H
Protection type	1 external fuse per group of channel0.5 A fast blow without reverse polarity protection
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC sensor OK
Status LED	1 LED (green) +32 channels indicator 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	0.145 kg

# **Environment**

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility

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
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary
	500 V DC 1 minute, between group of channels
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-2570 °C
Relative humidity	595 % at -2570 °C without condensation
Protective treatment	Conformal coating
Operating altitude	02000 m
	20005000 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	12.000 cm
Package 1 Length	11.000 cm
Package 1 Weight	191.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.130 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	90.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	58.550 kg

# **Contractual warranty**

Warranty 18 months



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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	52
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

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

#### **Use Again**

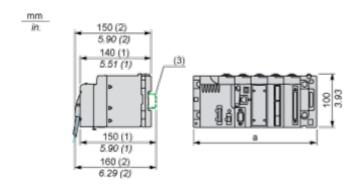
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## BMXDDI6402KH

#### **Dimensions Drawings**

### **Modules Mounted on Racks**

#### **Dimensions**



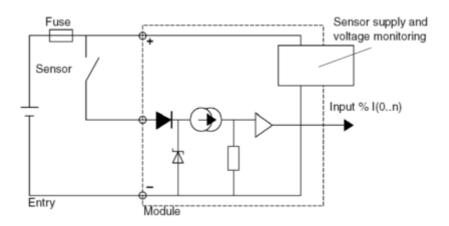
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

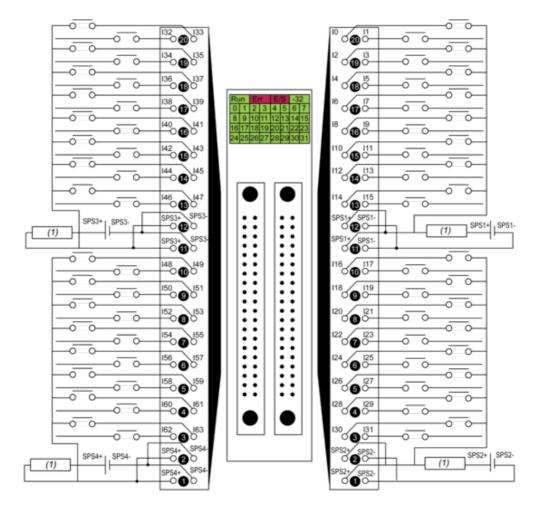
Connections and Schema

#### **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