## **Product data sheet**

Specifications



# discrete input module X80 - 16 inputs - 24 V DC positive

BMXDDI1602

#### Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Current sink (logic positive)
Discrete input voltage	24 V DC, discrete input logic: positive
Discrete input current	3.5 mA

## Complementary

Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2 With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 type 3
Sensor power supply	1930 V
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 1.5 mA
Input impedance	6800 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	2.5 W
DC typical response time	4 ms
DC maximum response time	7 ms
Paralleling of inputs	Yes
Typical current consumption	76 mA at 3.3 V DC
MTBF reliability	738749 H
Protection type	1 external fuse per group of channel0.5 A fast blow reverse polarity protection
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC 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	0.115 kg

### **Environment**

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Environmental characteristic	Fungal spore resistant class 3B2
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	060 °C
Relative humidity	595 % at 55 °C without condensation
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 Weight	151 g
Package 1 Height	5.488 cm
Package 1 width	11.188 cm
Package 1 Length	11.741 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	2.931 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
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	

## **Contractual warranty**

Warranty	18 months

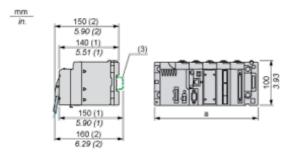
## **Product data sheet**

## **BMXDDI1602**

**Dimensions Drawings** 

#### **Modules Mounted on Racks**

#### **Dimensions**



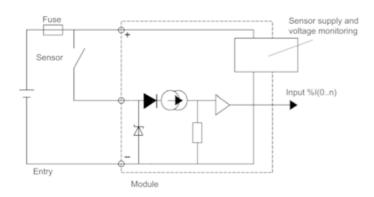
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

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

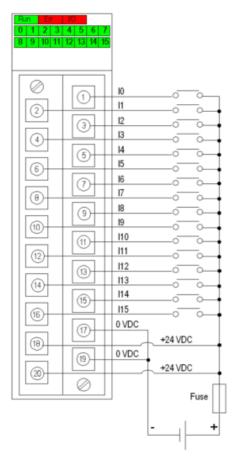
Connections and Schema

#### **Connecting the Module**

#### **Input Circuit Diagram**



#### **Module Connection**



power supply 24 VDC fuse fast blow fuse of 0.5 A