# BMXDDI3202K

discrete input module X80 - 32 inputs - 24 V DC positive



# Main Range of product Modicon X80 Product or component type Discrete input number 32 Discrete input type Isolated Input type Current sink (logic positive) Discrete input voltage 24 V DC, discrete input logic: positive Discrete input current 2.5 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 1	
Sensor power supply	1930 V	
Current state 1 guaranteed	>= 2 mA	
Current state 0 guaranteed	<= 0.5 mA	
Input impedance	9600 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	3.9 W	
DC typical response time	4 ms	
DC maximum response time	7 ms	
Paralleling of inputs	No	
Typical current consumption	121 mA at 3.3 V DC	
MTBF reliability	905000 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	0.112 kg	

#### Environment

IP degree of protection	IP20	
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility	
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	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 Height	5.373 cm
Package 1 Width	10.974 cm
Package 1 Length	11.554 cm
Package 1 Weight	154.4 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.5 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	75.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	58 kg

# Offer Sustainability

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

# Contractual warranty

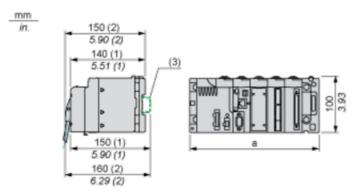
	<u> </u>	
Warranty	18 months	

# Product data sheet Dimensions Drawings

# BMXDDI3202K

# Modules Mounted on Racks

### **Dimensions**



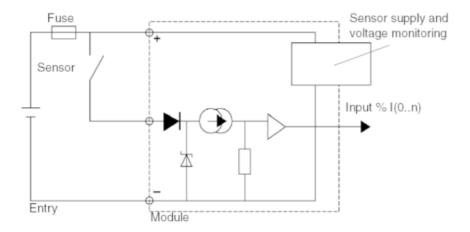
- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- $(3) On AM1 ED \ rail: 35 \ mm \ wide, 15 \ mm \ deep. Only \ possible \ with \ BMXXBP0400/0400H/0600/0600H/0800/0800H \ rack.$

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

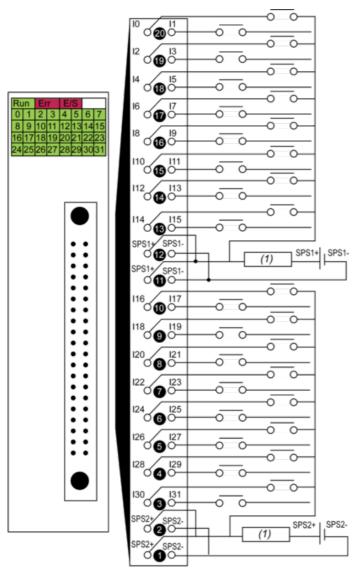
# BMXDDI3202K

# 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