Product datasheet

Specifications

safety discrete input module, Modicon X80, 16 inputs, 24V DC positive

BMXSDI1602

Main

Range Of Product	Modicon X80
Product Or Component Type	Discrete input module
Discrete Input Number	16
Discrete Input Type	Not isolated
Input Type	Current sink (logic positive)
Discrete Input Voltage	24 V DC, discrete input logic: positive
Discrete Input Current	3.2 mA

Complementary

Input Compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2
Sensor Power Supply	19...30 V
Current State 1 Guaranteed	>= 2 mA
Current State 0 Guaranteed	<= 1.5 mA
Input Impedance	7500 Ohm
Insulation Resistance	> 10 MOhm 500 V DC
Power Dissipation In W	3.57 W
Dc Typical Response Time	6 ms
Dc Maximum Response Time	6 ms
Paralleling Of Inputs	Yes
Typical Current Consumption	256 mA at 3.3 V DC 100 mA at 24 V
Mtbf Reliability	265000 H
Protection Type	reverse polarity protection External overload protection0.5 A fast blow
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

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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
Vibration Resistance	3 gn
Shock Resistance	15 gn
Ambient Air Temperature For Storage	-40…85 °C
Ambient Air Temperature For Operation	-25…60 °C
Relative Humidity	5…95 % at 55 °C without condensation
Protective Treatment	Conformal coating
Operating Altitude	0...2000 m
	2000...5000 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	18.000 cm
Package 1 Length	26.000 cm
Package 1 Weight	338.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.136 kg

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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   Yes

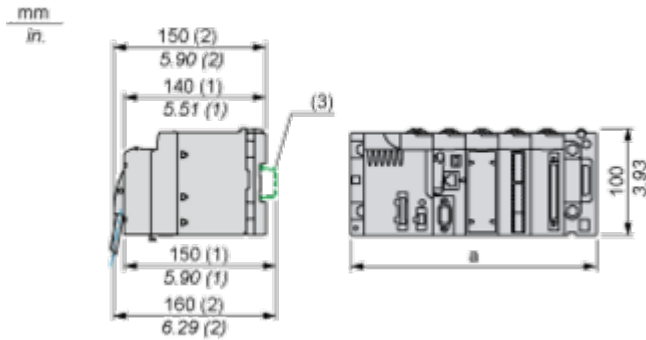|	
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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