

Schneider BME Series Service Manual

BMXSDI1602

1. Description

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

3. Product Information

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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 positive

Discrete input current

3.2 mA

Complementary

Input compatibility

With 2-wire/3-wire proximity sensors 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 3.3 V DC

100 mA 24 V

MTBF reliability

265000 H

Protection type

reverse polarity protection

External overload protection 0.5 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

0.254 lb(US) (0.115 kg)

Environment

IP Degree of Protection

IP20

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 50/60 Hz 1 minute, primary/secondary

Vibration resistance

3 gn

Shock resistance

15 gn

Ambient Air Temperature for Storage

-40...185 °F (-40...85 °C)

Ambient air temperature for operation

-13...140 °F (-25...60 °C)

Relative humidity

5...95 % 131 °F (55 °C) without condensation

Protective treatment

Conformal coating

Operating altitude

0...6561.68 ft (0...2000 m)

2000...5000 m with derating factor

Ordering and shipping details

Category

US1PC3418161

Discount Schedule

PC34

GTIN

3606481204912

Returnability

Yes

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.17 in (5.500 cm)

Package 1 Width

7.09 in (18.000 cm)

Package 1 Length

10.24 in (26.000 cm)

Package weight(Lbs)

11.922 oz (338.000 g)

Unit Type of Package 2

S03

Number of Units in Package 2

8

Package 2 Height

11.81 in (30.000 cm)

Package 2 Width

11.81 in (30.000 cm)

Package 2 Length

15.75 in (40.000 cm)

Package 2 Weight

7.275 lb(US) (3.300 kg)

Unit Type of Package 3

P06

Number of Units in Package 3

64

Package 3 Height

29.53 in (75.000 cm)

Package 3 Width

23.62 in (60.000 cm)

Package 3 Length

31.50 in (80.000 cm)

Package 3 Weight

72.753 lb(US) (33.000 kg)