

BMXSDI1602

discrete input module - 16 inputs - 24 V DC
positive - Safety



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
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2

Complementary

Sensor power supply	19...30 V
Voltage state 1 guaranteed	≥ 11 V
Current state 1 guaranteed	≥ 2 mA
Voltage state 0 guaranteed	≤ 5 V
Current state 0 guaranteed	≤ 1.5 mA
Input impedance	7500 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Maximum power dissipation in W	3.57 W
DC typical filtering time	6 ms
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Paralleling of inputs	Yes
Typical current consumption	256 mA at 3.3 V DC 100 mA at 24 V
MTBF reliability	275940 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:
Product weight	0.115 kg

Environment

IP degree of protection	IP20
Product certifications	ATEX EAC CSA TÜV Merchant Navy UL RCM
Standards	EN/IEC 61131-2 EN/IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
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
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
Operating altitude	0...2000 m 2000...5000 m with derating factor

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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