BMXDDI3202KH

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





Main Modicon X80 Range of product Product or component Discrete input module Product specific For severe environments application Discrete input number 32 Discrete input type Isolated Input type Current sink (logic positive) Discrete input voltage 24 V DC, discrete input logic: positive

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	696320 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

Discrete input current

Environment

IP degree of protection	IP20	
Directives	2014/35/EU - low voltage directive	
	2014/30/EU - electromagnetic compatibility	
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	
	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	-2570 °C	
Relative humidity	595 % at -2570 °C without condensation	
Protective treatment	Conformal coating	
Operating altitude	02000 m 20005000 m with derating factor	
Packing Units		
Unit Type of Package 1	PCE	

1	78	IC	KII	า <u>g</u>	U	ını	ts

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	150 g
Package 1 Height	5.5 cm
Package 1 width	12 cm
Package 1 Length	11 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEN 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		