Product data sheet
Characteristics

BMXDDI3202K
discrete input module, Modicon X80, 32 inputs, 24V DC positive



Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	32
Discrete input voltage	24 V DC for isolated
Discrete input logic	Positive logic (sink)

Complementary

Discrete input number	32 isolated conforming to IEC 60947-5-2 at 24 V DC 32 isolated conforming to IEC 61131-2 type 3 at 24 V DC
Input wiring mode	2 or 3 wires
Discrete input current	2.5 MA at 24 V DC
Voltage state 1 guaranteed	>= 11 V
Voltage state 0 guaranteed	< 5 V
Current state 1 guaranteed	>= 2 mA
Current state 0 guaranteed	<= 0.5 mA
Input impedance	9600 Ohm
Paralleling of inputs	No
Insulation resistance	> 10 MOhm 500 V DC
DC typical filtering time	4 Ms
DC maximum filtering time	7 Ms
Sensor power supply	: 19…30 V
Typical current consumption	121 MA DC
Current consumption	160 mA at 3.3 V DC
Power dissipation in W	3.9 W
Isolation between channels and bus	1500 V for 1 minute
Hot swapping fallback	Yes
MTBF reliability	905000 H
Voltage detection threshold	< 14 V DC sensor fault > 18 V DC sensor OK
Local signalling	1 LED (green) for module operating (RUN) 1 LED per channel (green) for channel diagnostic 1 LED (red) for module error (ERR) 1 LED (red) for module I/O
Height	134.6 Mm
Width	32 Mm
Depth	86 Mm
Net weight	0.112 Kg

Environment

IP degree of protection	IP20
Protective treatment	Standard version
Marking	CE UKCA CULus RCM EAC
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
Ambient air temperature for operation	0…60 °C
Ambient air temperature for storage	-40…85 °C
Relative humidity	5…95 % at 55 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating
Pollution degree	2
Vibration resistance	3 gn
Shock resistance	30 gn

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.200 Cm
Package 1 Width	11.000 Cm
Package 1 Length	11.500 Cm
Package 1 Weight	143.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	2.860 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	41 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	19.7276412121
Carbon footprint of the manufacturing phase [A1 to A3]	20 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0201899055
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0411134448
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	20.5097145251
Carbon footprint of the use phase [B2, B3, B4, B6]	21 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.273971103
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	41
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	Ff2a0a17-800d-4c82-9983-c10cf1a6b7a2
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised