DATASHEET - XIOC-8AI-I2

Analog input card for XC100/200, 24 V DC, 8AI (4-20mA)

Part no.	**XIOC-8AI-I2**
	262549
EL Number (Norway)	**4519670**

General specifications

Product name	Eaton XIOC Accessory Input card
Part no.	XIOC-8AI-I2
EAN	4015082625498
Product Length/Depth	100 millimetre
Product height	95 millimetre
Product width	30 millimetre
Product weight	0.135 kilogram
Certifications	CSA File No.: 012528 CSA-C22.2 No. 142-M UL Category Control No.: NRAQ CE CSA EN 50178 UL File No.: E135462 CSA-C22.2 No. 0-M CSA Class No.: 2252-01 IEC/EN 61131-2 UL UL508
Product Tradename	XIOC
Product Type	Accessory
Product Sub Type	Input card

Features & Functions

Electric connection type	Screw-/spring clamp connection
Features	Analog outputs configurable Analog inputs configurable Input, current

General information

Admissible range	20.4 – 28.8 V (11.8 – 14.4 V), Power supply
Current consumption	100 mA (typ.), internal (5 V DC), Inputs
Degree of protection	IP20
Number of channels	8, Input
Overvoltage category	II
Pollution degree	2
Protection class	1
Repetition rate	1 s
Residual ripple	≤ 5 %
Resolution	12 Bit (digital)
Type	Analog module
Used with	XC100/200 (expandable with up to 15 XI/OC modules)

Ambient conditions, mechanical

Impact resistance	500 g/∅ 50 mm ±25 g
Shock resistance	15 g, Mechanical, Shock duration 11 ms
Vibration resistance	10 - 57 Hz, ± 0.075 mm 57 - 150 Hz ± 1.0 mm

Climatic environmental conditions

Ambient operating temperature - min	0 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-25 °C
Ambient storage temperature - max	70 °C

Electro magnetic compatibility

Emitted interference	Class A (according to DIN/EN 55011/22)

Voltage dips	10 ms
Terminal capacities	
Terminals	Optionally, screw terminals or spring-loaded terminals for digital/analog modules Plug-in terminal block
Electrical rating	
Power loss	Max. 0.5 W
Power supply	24 V DC (-15/+20 %), approx. 150 mA
Rated operational voltage	24 (12) V DC
Communication	
Connection type	2-core screened cable (≤ 20 m)
Input/Output	
Conversions	≤ 5 ms
Input	8 Inputs (4 - 20 mA)
Input current	4 - 20 mA
Number of inputs (analog)	8
Number of outputs (analog)	0
Total error	≤ ±1 % (of the full-scale value), Inputs
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Analog inputs: Opto-isolated Analog outputs: no
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	0.5 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Meets the product standard's requirements.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / PLC analogue I/O-module (EC001420)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / PLC analog input/output module (ecl@ss13-27-24-22-01 [AKE524019])

Number of analogue inputs		8
Number of analogue outputs		0
Analogue inputs configurable		Yes
Analogue outputs configurable		Yes
Input, current		Yes
Input, voltage		No
Input, resistor		No
Input, resistance thermometer		No
Input, thermocouple		No
Input signal, configurable		No
Resolution of the analogue inputs	Bit	12
Output, current		No
Output, voltage		No
Output signal configurable		No
Resolution of the analogue outputs	Bit	0
Type of electric connection		Screw-/spring clamp connection
Suitable for safety functions		No
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Width	mm	30
Power consumption	W	
Height	mm	95
Depth	mm	100