Analog input card for XC100/200, 24 V DC, 8DI(0 to 10V)



Part no. XIOC-8AI-U1

257899

EL Number 4519671

(Norway)

(INUI Way)	
General specifications	
Product name	Eaton XIOC Accessory Input card
Part no.	XIOC-8AI-U1
EAN	4015082578992
Product Length/Depth	100 millimetre
Product height	95 millimetre
Product width	30 millimetre
Product weight	0.135 kilogram
Certifications	EN 50178 UL File No.: E135462 CSA File No.: 012528 IEC/EN 61131-2 UL CSA Class No.: 2252-01 CE UL508 CSA-C22.2 No. 142-M UL Category Control No.: NRAQ CSA-C22.2 No. 0-M CSA
Product Tradename	XIOC
Product Type	Accessory
Product Sub Type	Input card
Features & Functions	
Electric connection type	Screw-/spring clamp connection
Features	Analog outputs configurable Input, voltage Analog inputs configurable
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)
Туре	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)
nput/Output	
Conversions	≤ 5 ms
Input	8 Inputs (0 - 10 V)
Input impedance	100 kΩ
Input voltage	0 - 10 V DC (Input modules)
Number of inputs (analog)	8
Number of outputs (analog)	0
Total error	\leq ±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 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. 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)

Analogue inputs configurable Yes Analogue outputs configurable Yes Input, current No Input, voltage Yes Input, resistor No Input, resistance thermometer No Input, thermocuple No Input, thermocuple outputs No Resolution of the analogue inputs Bit 12 Output, current No No Output, voltage No No Voltage Screw-/spring clamp connection Vipe of electric connection No No Voltage No No Voltage No No					
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Resolution of the analogue inputs Output, current Output, voltage Output, voltage Output signal configurable Resolution of the analogue outputs Rose Resolution of the analogue outputs Rose Resolution of the analogue outputs Rose R	Input, thermocouple		No		
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Resolution of the analogue outputs Type of electric connection Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Power consumption Height Bit 0 Screw-/spring clamp connection No No No No No No No No No	Output, voltage		No		
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Explosion safety category for dust Width mm 30 Power consumption W Height mm 95	Appendant operation agent (Ex ib)		No		
Widthmm30Power consumptionWHeightmm95	Explosion safety category for gas		None		
Power consumption W Height mm 95	Explosion safety category for dust		None		
Height mm 95	Width	mm	30		
·	Power consumption	W			
Depth mm 100	Height	mm	95		
	Depth	mm	100		