### **DATASHEET - XIOC-8AI-U2**



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

Part no. XIOC-8AI-U2 Catalog No. 257900

EL-Nummer (Norway) 4519672



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ш	ΗV	v	ш	ıu	u	ıa	ш

Function	Analog modules
	Compact I/O system for connection to XC100/200 Modular PLCs XC100/200 expandable with up to 15 XI/OC modules Optionally, screw terminals or spring-loaded terminals for digital/analog modules
Description	Inputs 8 voltage inputs, ±10 V

#### Technical data General

Standards			IEC/EN 61131-2 EN 50178
Ambient temperature		°C	0 - +55
Storage	θ	°C	-25 - +70
Vibration resistance			10 - 57 Hz ±0.075 mm 57 - 150 Hz ±1.0 mm
Mechanical shock resistance		g	15 Shock duration 11 ms
Impact resistance			500 g/∅ 50 mm ±25 g
Overvoltage category/pollution degree			11/2
Protection class			1
Degree of Protection			IP20
Emitted interference			DIN/EN 55011/22, Class A
Weight		kg	0.18

Power su	pply
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Rated voltage	U <sub>e</sub>	V DC	24 (12)
Admissible range			20.4 – 28.8 (11.8 – 14.4)
Residual ripple		%	≦ 5
Neutral poles			
Duration of dip		ms	10
Repetition rate		s	1
Maximum power loss	$P_{\nu}$	W	0.5

### Inputs

V DC	-10 to +10
Bit	12
	≦5 ms
%	≤ ±1 (of the full-scale value)
kΩ	100
	Opto-isolated
	No
Qty.	8
mA	Normally 100
	Plug-in terminal block
	24 V DC (-15/+20 %), approx. 150 mA
	2-core screened cable (≦20 m)
	Bit % kΩ

Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	4.8
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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.
$10.2.3.3 \ Verification \ of \ resistance \ of \ insulating \ materials \ to \ abnormal \ heat \ and \ fire \ due \ to \ internal \ electric \ effects$			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 Insulation properties			
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. $\label{eq:continuous}$

# **Technical data ETIM 7.0**

PLC's (EG000024) / PLC analogue I/0-module (EC001420)					
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS analog input/output module (ecl@ss10.0.1-27-24-22-01 [AKE524014])					
Number of analogue inputs		8			
Number of analogue outputs		0			
Analogue inputs configurable		Yes			
Analogue outputs configurable		Yes			
Input, current		No			
Input, voltage		Yes			
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
Category according to EN 954-1		
SIL according to IEC 61508		None
Performance level acc. 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
Height	mm	100
Depth	mm	95

### **Approvals**

Marking  DL File No.  E135462  DL Category Control No.  NRAQ  CSA File No.  CSA File No.  CSA Class No.  North America Certification  Specially designed for North America  Current Limiting Circuit-Breaker  Mo  Enter Marking  E135462  NRAQ  012528  CSA Class No.  UL listed, CSA certified  No  No  No  Current Limiting Circuit-Breaker		
DL Category Control No.  NRAQ  O12528  CSA Class No.  North America Certification  Specially designed for North America  Current Limiting Circuit-Breaker  NRAQ  O12528  CSA Class No.  UL listed, CSA certified  No  No	Product Standards	
CSA File No. 012528 CSA Class No. 2252-01 North America Certification UL listed, CSA certified Specially designed for North America No Current Limiting Circuit-Breaker No	UL File No.	E135462
2252-01 North America Certification UL listed, CSA certified Specially designed for North America No Current Limiting Circuit-Breaker No	UL Category Control No.	NRAQ
North America Certification UL listed, CSA certified Specially designed for North America No Current Limiting Circuit-Breaker No	CSA File No.	012528
Specially designed for North America No Current Limiting Circuit-Breaker No	CSA Class No.	2252-01
Current Limiting Circuit-Breaker No	North America Certification	UL listed, CSA certified
	Specially designed for North America	No
Degree of Protection IEC: IP20, UL/CSA Type: -	Current Limiting Circuit-Breaker	No
	Degree of Protection	IEC: IP20, UL/CSA Type: -

# **Dimensions**



