Analog I/O module, 2 analog inputs and 2 analog outputs, +/-10 V, Uref

Powering Business Worldwide™

XN-322-4AI0-U2 Part no. Article no. 183181

Catalog No. XN-322-4AI0-U2

Delivery programme

Photo	
Function	XN300 I/O slice modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 analog input and output module for XN300
Short Description	2 analog inputs and 2 analog outputs, +/-10 V, Uref
Description	Analog mixed module with 2 analog outputs -10 to +10 V (12 bit) and 4 analog inputs -10 to +10 V (16 bit) or potentiometer inputs (0-100%, reference output (+10 V/10 mA).
For use with	XN-312

Technical data

General

Standards Electromagnetic compatibility (EMC) ESD Air/contact discharge Electromagnetic fields (0.081)/ (1.42)/ (1.72) (1.7.	General			
Electromagnetic fields	Standards			IEC/EN 61000-6-2
Burst	Electromagnetic compatibility (EMC)			
Climatic proofing Clim	ESD		kV	8/4
Supply cable Signal cable Surge Supply cable (balanced/unbalanced) Signal cable (unbalanced) Radiated RFI Emitted interference (radiated, high frequency) Voltage fluctuations/voltage dips Umgebungshedingungen Klima Climatic proofing Climatic proofing Relative humidity Relative humidity V 2 1 1 4 V 0.5 / 0.5 KV 1 4 4 4 4 4 4 4 4 7 5 7 7 7 7 7 7 7 7 7 7 7	Electromagnetic fields	(1,42) / (2		10/3/1
Signal cable Surge Supply cable (balanced/unbalanced) Signal cable (unbalanced) Radiated RFI Emitted interference (radiated, high frequency) Voltage fluctuations/voltage dips Umgebungsbedingungen Klima Climatic proofing Climatic proofing Air pressure (operation) Relative humidity NV 1 4V 1 40 / 47 class A 40 / 47 class A Pa 795 - 1080 Dry heat to IEC 60068-2-3 Air pressure (operation) Relative humidity 795 - 1080 0 - 95%, non condensing	Burst			
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Emitted interference (radiated, high frequency) (30230 MHz) / (2301000 MHz) Voltage fluctuations/voltage dips Umgebungsbedingungen Klima Climatic proofing Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3 Air pressure (operation) Relative humidity dB 40 / 47 class A 40 / 47 class A Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3 hPa 795 - 1080 0 - 95%, non condensing	Signal cable (unbalanced)		kV	1
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Relative humidity 0 - 95%, non condensing	Climatic proofing			
	Air pressure (operation)		hPa	795 - 1080
	Relative humidity			0 - 95%, non condensing
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Storage, Transpart 19			۰۲	0 - 160
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Table Tab				· ·
Part	Mechanical shock resistance		Impacts	18
Manualsaing material group Pollution degree P	Terminations	3,		
Name of containing varianged and provide the containing variange (and possition of design in 10 Palection of design in	Rated operational data			
Rated operating valtage	Insulating material group			1
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Contraction design in TOP direction Stripping length Stripping l	Rated operating voltage		V	160
Streigning langsth Streigning l	Maximum load current/cross-sectional area		A / mm²	X (not specified by plug manufacturer)
Streigning langsth Streigning l	Connection design in TOP direction			Push-in spring-cage terminal (plug-in connection)
Course pin IECEN 20042-1 The stable IMDV-U The stable IMDV-			mm	
Process Property				
" solid H07V-U " finable H 07V-K " with fertiles without plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-light) " with ferrules with plasti				
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Twith formules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) mm² 25-15				
	"f" flexible H 07V-K		mm ²	0.2 - 1.5
Separation Sep			mm ²	0.25 - 1.5
Power supply - Input Power supply - Input Power supply - Input consumption for +5 V power supply (internal) Current consumption for +24 V power supply (internal) Current consumption for +24 V power supply (internal) Current consumption for +24 V power supply (internal) Potential isolation Power supply - Output Sensor/transmitter supply Rated operating voltage Potential isolation Notes on power supply Potential isolation Notes on power supply Resolution Notes on power supply Resolution Rated dissipation (without active channels) Notes on head dissipation Notes on head dissipation Notes on head dissipation Resolution Resolut			mm ²	0.25-1,5
Power supply Power supply Image: su	Cable size		AWG	24 - 16
Current consumption for +5 V power supply (internal) Current consumption for +2 V power supply (internal) Potential isolation Rated operational current Rated operation (without active channels) Rated dissipation (without active channels) Rated operation (without active channels) Ra	Supply			
Current consumption for +5 V power supply (internal) Current consumption for +24 V power supply Power supply - Output Power supply - Output Sensor/transmitter supply Rated operating voltage Rated operating voltage Rated operational current Rated dissipation Rated dissi	Power supply - Input			
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Power supply - Output Sensor/transmitter supply Rated operating voltage Rated operating voltage output permissible output current of 4.17 mA per channel Rated voltage output permissible output current of 4.17 mA per channel Rated voltage output permissible output current of 4.17 mA per channel Rated voltage output permissible output current of 4.17 mA per channel Rated voltage output permissible output current of 4.17 mA per channel Rated dissipation (valuage output permissible output current of 4.17 mA per channel Rated dissipation (valuage output permissible output current of 4.	Current consumption for +24 V power supply	1	mA	(typ.) 45
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Resolution Bit 16 Min. value refresh time/cycle time Per channels Hardware input filter Software input filter Potential isolation Analog output modules Channels Channels Output voltage Bit 16 1/1 1/1 1/2 1/2 1/2 1/2 1/2 1	Measured variables		,	
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Hardware input filter Software input filter Potential isolation Analog output modules Channels Output voltage Typically: 1 kHz, third-order low-pass filter parameterizable no Quantity 2 Cuantity	Min. value refresh time/cycle time			
Potential isolation no Analog output modules Analog outputs Channels Output voltage	Hardware input filter	an onamicis		Typically: 1 kHz, third-order low-pass filter
Analog output modules Analog outputs Channels Output voltage Channels Output voltage	Software input filter			parameterizable
Analog output modules Analog outputs Channels Output voltage Quantity	Potential isolation			no
Analog outputs Channels Output voltage Channels Output voltage	Analog output modules			
Output voltage	Analog outputs			
	Channels		Quantity	2
Output voltage, nominal value V DC -10 +10	Output voltage			
	Output voltage, nominal value		V DC	-10 +10

Resolution		Bit	12
Refresh time	All channels	ms	1
For connection of:			2 conductors
Load resistor			
Resistive load		Ω	>5000
Capacitive load		μF	0.1
Short-circuit strength			yes
Short-circuit current	per channel	mA	30
Accuracy		% of full scale	±0.5

Functions

Voltage measurement		
Channels	Quantity	2
Measurement ranges	V DC	-10 +10
Value representation	m V	SIGNED16
For connection of:		2 conductors
Maximum input voltage	V DC	14
Common-mode range	V DC	±12
Input resistance	ΜΩ	> 10
Limiting frequency		Typically: 1 kHz (third-order low-pass filter)
Accuracy		±0.3
Notes on voltage measurement		Open wire monitoring. The channels can also be used as potentiometer inputs.

Design verification as per IEC/EN 61439

Jesign verification as per IEC/EN 61439			
echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	1.952
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
C/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.

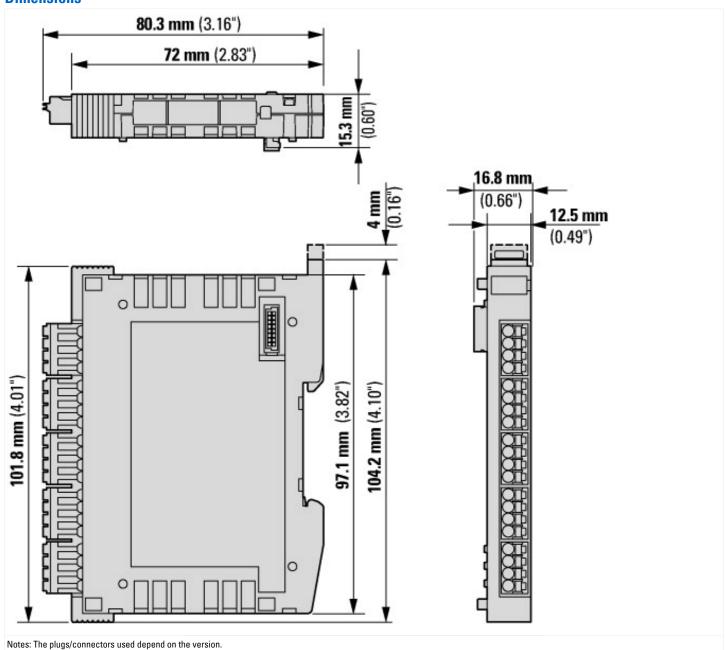
Technical data ETIM 6.0				
PLC's (EG000024) / Fieldbus, decentr. periphery - analogue I/O module (EC001596)				
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - analogue I/O module (ecl@ss8.1-27-24-26-01 [BAA061011])				
Supply voltage AC 50 Hz	V	0 - 0		
Supply voltage AC 60 Hz	V	0 - 0		
Supply voltage DC	V	18 - 30		
Voltage type of supply voltage		DC		
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	16		
Output, current		No		
Output, voltage		Yes		
Output signal configurable		No		
Resolution of the analogue outputs	Bit	12		
Number of analogue inputs		2		
Number of analogue outputs		2		
Analog inputs configurable		Yes		
Analog outputs configurable		No		
Number of HW-interfaces industrial Ethernet		0		
Number of HW-interfaces PROFINET		0		
Number of HW-interfaces RS-232		0		
Number of HW-interfaces RS-422		0		
Number of HW-interfaces RS-485		0		
Number of HW-interfaces serial TTY		0		
Number of HW-interfaces parallel		0		
Number of HW-interfaces Wireless		0		
Number of HW-interfaces other		1		
Supporting protocol for TCP/IP		No		
Supporting protocol for PROFIBUS		No		
Supporting protocol for CAN		Yes		
Supporting protocol for INTERBUS		No		
Supporting protocol for ASI		No		
Supporting protocol for KNX		No		
Supporting protocol for MODBUS		No		
Supporting protocol for Data-Highway		No		
Supporting protocol for DeviceNet		No		
Supporting protocol for SUCONET		No		
Supporting protocol for LON		No		
Supporting protocol for PROFINET IO		No		
Supporting protocol for PROFINET CBA		No		
Supporting protocol for SERCOS		No		
Supporting protocol for Foundation Fieldbus		No		
Supporting protocol for EtherNet/IP		No		
Supporting protocol for AS-Interface Safety at Work		No		
Supporting protocol for DeviceNet Safety		No		
Supporting protocol for INTERBUS-Safety		No		

Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
10 link master		No
System accessory		Yes
Degree of protection (IP)		IP20
Type of electric connection		Screw-/spring clamp connection
Fieldbus connection over separate bus coupler possible		No
Rail mounting possible		Yes
Wall mounting/direct mounting		No
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		
SIL according to IEC 61508		None
Performance level acc. 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	16.8
Height	mm	104.2
Depth	mm	80.3

Approvals

Product Standards	CE, cULus
UL File No.	E135462

Dimensions



Additional product information (links)

MN050002 Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules

MN050002 Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules - Deutsch

 $ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN050002_DE.pdf$

MN050002 Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules - English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN050002_EN.pdf