DATASHEET - XN-322-10AI-TEKT



Analog input module; 8 thermocouple inputs and two KTY inputs

Part no. XN-322-10AI-TEKT Catalog No. 178792

Alternate Catalog XN-322-10AI-TEKT

No



Delivery program

71.3	
Function	XN300 I/O slice modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 analog input module for XN300
Short Description	8 analog thermocouple inputs and two KTY inputs
For use with	XN-312

Technical data

General

Standards			IEC/EN 61131-2 IEC/EN 61000-6-2 IEC/EN 61000-6-4
Approvals			
Approvals			CE, cULus EAC
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	8/4
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	10/3/1
Burst			
Supply cable		kV	2
Signal cable		kV	1
Surge			
Supply cable (balanced / unbalanced)		kV	0,5 / 0,5
Signal cable (unbalanced)		kV	1
Radiated RFI		V	10
Emitted interference (radiated, high frequency)	(30230 MHz) / (2301000 MHz)	dB	40 / 47 class A
Voltage fluctuations/voltage dips			Yes / 10 ms
Ambient conditions			
Climatic conditions			
Climatic proofing			Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3
Air pressure (operation)		hPa	795 - 1080
Relative humidity			0 - 95%, non condensing
Condensation			prevent with suitable measures
Temperature			
Operation		°C	0 - +60

Storage, transport	9	°C	-20 - +85
Degree of Protection		ŭ	IP20
Mounting position			Horizontal
Free fall, packaged (IEC/EN 60068-2-32)		m	1
Vibrations	3,5 mm / 1 g	Hz	5 - 8.4 / 8.4 -150
Mechanical shock resistance	Semisinusoida 15 g/11 ms	Impacts	18
Terminations			
Rated operational data			
Insulating material group			1
Overvoltage category / pollution degree			III/3
Rated operating voltage		V	160
Maximum load current/cross-sectional area		A / mm²	X (not specified by plug manufacturer)
Connection design in TOP direction			Push-in spring-cage terminal (plug-in connection)
Stripping length		mm	10
Gauge pin IEC/EN 60947-1			A1
Connection specifications			
"e" solid H07V-U		mm ²	0.2 - 1.5
"f" flexible H 07V-K			0.2 - 1.5
		mm ²	
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm ²	0.25-1,5
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm ²	0.25-1,5
Cable size		AWG	24 - 16
Supply			
Power supply - Input			
Power supply			
Current consumption for +5 V power supply (internal)	I	mA	(typ.) 62
Current consumption for +24 V power supply	1	mA	(typ.) 75
Potential isolation	PE (polyethylene)		no
Heat dissipation			
Heat dissipation (without active channels)		W	2.11
Max. heat dissipation		W	3.04
Notes on heat dissipation			The max. heat dissipation is specified as the maximum power produced inside the device's housing.
Analog inputs			uevice's mousing.
Channels		Quantity	10
Measured variables			temperature
Resolution		Bit	16
Min. value refresh time/cycle time	per channel / all channels		1/1
Hardware input filter	22010		Typically: 2 Hz; third-order low-pass filter
Software input filter			
			parameterizable
Potential isolation Functions			no
Temperature and resistance measurement			
Channels		Quantita	8 thermocouples, 2 KTYs
		Qualitity	· ·
Connectable sensors			Thermocouples, type J, K, T, E, N, S, R, B, L, UKTY10
Measurement ranges	temperature		Type J: 0 +690 °C Type K: 0 +940 °C Type T: 0 +400 °C Type E: 0 +520 °C Type N: 0 +1080 °C Type S: 0 +1760 °C Type R: 0 +1760 °C Type B: 0 +1820 °C Type B: 0 +680 °C Type U: 0 +680 °C Type U: 0 +590 °C KTY10:-20 +80 °C
Value representation			SIGNED16 (0.1 °C)
Value representation			

Destruction limit	U_{max}		265 V AC (thermocouples), 40V DC (KTY)
Accuracy		% of full scale	±0.7
Notes on temperature and resistance measurements			A KTY sensor is included with the product.

Design verification as per IEC/EN 61439

Design vermeation as per 120/214 01-03			
Technical 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	3.04
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
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.

Technical data ETIM 7.0

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@ss10.0.1-27-24-26-01 [BAA061014])			
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			No
Input, resistor			No
Input, resistance thermometer		,	Yes
Input, thermocouple		,	Yes
Input signal, configurable			No

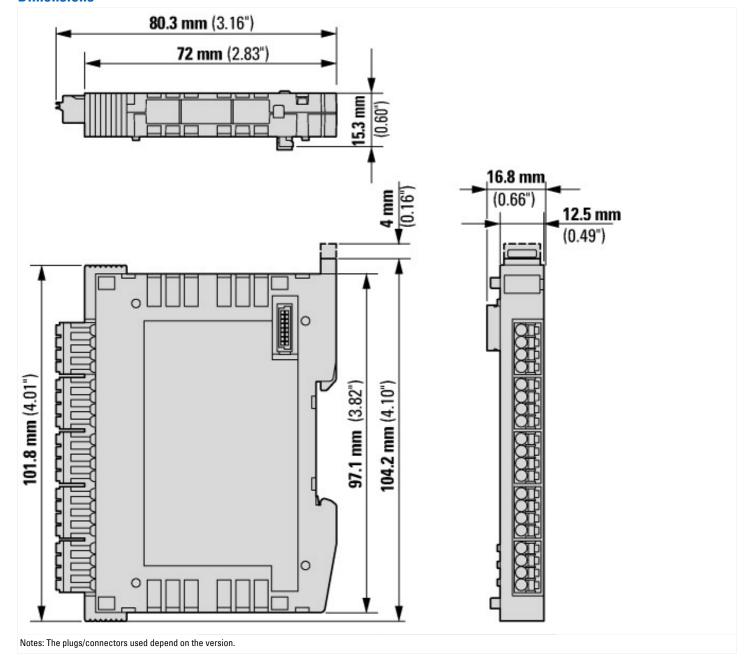
Output, current Mon Coupts, signated profitigenable No Receitation of the carciague coupted 8 10 Number of standague coupted 8 10 Number of standague coupted 9 9 Audiques sequence configurable 9 9 Audiques sequence configurable 9 9 Number of Hibbritantices (Broght FT) 9 9 Supporting protects for TOPP 10 9 Supporting protects for TOPP 10 9 Supporting protec	Resolution of the analogue inputs	Bit	16
Output signage Image of configuration		Dit	
Output signal carriguración Methodo or anisotopo compato Bit O combuento compato Number of anisotopo computos 4 3 Anadoque anoques configuración 5 10 Anadoque anoques configuración 5 10 Anadoque anoques configuración 5 10 Number of HIV-ment faces includated Elbarrier 6 10 Number of HIV-ment faces includated Elbarrier 10 10			
Resultation of the analogue copies 8 K Comment or analogue injust 8 C 9 C 8 C 8 C 8 C 8 C 9 C 8 C 8 C 9 C 8 C 8 C 8 C 8 C 9 C			
Number of analogo injunct 8 Number of analogo outports 9 Analogo exposts contigurable Yes Number of INV-interfaces industrial Etheret 9 Number of INV-interfaces industrial Etheret 9 Number of INV-interfaces industrial Etheret 9 Number of INV-interfaces INS-222 9 Number of INV-interfaces INS-228 9 Number of INV-interfaces INS 9 Number of INV-interfaces INS 9 Number of INV-interfaces INS 9 Supporting protocol for CAN No Supporting protocol for INTERIOR 9 Supporting protocol for INTERIOR 9 Supporting protocol for Expost 9 Supporting protocol for Expost 9 Supporting protocol for Expost 9 Sup		Rit	
Namebor of analogue causated 9 Analogue causated colliganate 9 Namebor of Information Colliganate 9 Namebor of Informations RS-0020 0 Number of Informations RS-2021 0 Number of INformatinaces RS-2022 0 Number of INformations RS-4022 0 Number of INformatinaces RS-4028 0 Number of INformatinaces RS-4028 0 Number of INformatinaces RS-4028 0 Number of INformatinaces are in ITTY 0 Supporting protector for INTY-ITTY 0 Supporting protector for INTY-ITTY 0		DIL	
Analogue lopids configurable Mes Yes Analogue double configurable 19 Number of Ministraces undestrict Elements 0 Number of Ministraces RS-220 0 Number of Ministraces RS-221 0 Number of Ministraces RS-222 0 Number of Ministraces RS-232 0 Number of Ministraces RS-243 0 Number of Ministraces Parallel 0 Number of Ministraces with Ministra			
Availague outputs sonfigurable Yes Number of HW-marfaces industrial Etherat 0 Number of HW-marfaces R50REF 0 Number of HW-marfaces R5222 0 Number of HW-marfaces R5-845 0 Number of HW-marfaces R5-845 0 Number of HW-marfaces separal 0 Number of HW-marfaces separal 0 Number of HW-marfaces Street 0 Number of HW-marfaces Street 0 Number of HW-marfaces USB 0 Number of HW-marfaces USB 0 Supporting protocol for PDRPIB Na Supporting protocol for PDRPIB Na Supporting protocol for PDRPIB Na Supporting protocol for PRIB Na Supporting protocol for PDRPIB N			
Number of HVM-interfaces industrial Efferences Monther of HVM-interfaces RS-202 0 Number of HVM-interfaces RS-422 0 0 Number of HVM-interfaces RS-422 0 0 Number of HVM-interfaces serval TV 0 0 Number of HVM-interfaces serval TV 0 0 Number of HVM-interfaces serval TV 0 0 Number of HVM-interfaces was all VM-interfaces was all V			
Number of INV-metraces RS-222 0 Number of INV-metraces RS-232 0 Number of INV-metraces RS-432 0 Number of INV-metraces RS-438 0 Number of INV-metraces serial TY 0 Number of INV-metraces serial TY 0 Number of INV-metraces Wretes 0 Number of INV-metraces Unrels 0 Supporting protect for PROFIGURA 0 Supporting protect for Drofts Highway 0			
Number of HW-interfaces RS-252 0 Number of HW-interfaces RS-455 0 0 Number of HW-interfaces RS-455 0 0 Number of HW-interfaces parial TY 0 0 Number of HW-interfaces parial TY 0 0 Number of HW-interfaces Wardens 0 0 Number of HW-interfaces wardens 0 0 Number of HW-interfaces wardens 0 0 Supporting protected for TCMP 0 0 Supporting protected for TMPROWS 0 0 Supporting protected for DATA 0 0 Supporting protected for ARA 0 0 Supporting protected for MRTROWS 0 0 Supporting protected for MORUS 0 0 Supporting protected for Work 0 0 Supporting protected for DeviceMR 0 0 Supporting protected for Ex			
Number of HW-interfaces RIS-425 0 Number of HW-interfaces RIS-456 0 Number of HW-interfaces Actival TYY 0 Number of HW-interfaces brailed 0 Number of HW-interfaces brailed 0 Number of HW-interfaces USB 0 Number of HW-interfaces Other 1 Supporting protocol for TPDIP 0 Supporting protocol for TPDIPSUS 0 Supporting protocol for MRITERBUS No Supporting protocol for DUTA No Supporting protocol for DUTA No Supporting protocol for Supporting protocol for Supporting protocol for PROFINET OA No Supporting protocol for PROFINET OA No Supporting protocol for PROFINE			
Number of HW-interfaces refails 0 Number of HW-interfaces serials 0 Number of HW-interfaces Wireless 0 Number of HW-interfaces Wireless 0 Number of HW-interfaces Wireless 0 Number of HW-interfaces USB 0 Supporting protect for TCPIP No Supporting protect for TCPIP No Supporting protect for FROFIBUS No Supporting protect for CAN No Supporting protect for TCREBUS No Supporting protect for TCREBUS No Supporting protect for TCREBUS No Supporting protect for ACN No Supporting protect for ACN No Supporting protect for ACN No Supporting protect for Develable No Supporting protect for ERMINET EGA No Supporting protect for ERMINET EGA No Supporting protect for E			
Number of HW-interfaces parallel 0 Number of HW-interfaces Wireless 1 Supporting protocol for HW-interfaces Wireless 1 Supporting protocol for ECAN No Supporting protocol for HRORIBUS No Supporting protocol for MROBUS No Supporting protocol for BML No Supporting protocol for BML No Supporting protocol for BML No Supporting protocol for MW-interfaces with MW No Supporting protocol for BW-interfaces with MW No Supporting protocol for BW-interfaces with MW-interfaces with MW No Supporting protocol for FRORINET in Work No Supporting protocol for EMBLE William No Supporting protocol for EMBLE William			
Number of HW-interfaces parallel 0 Number of HW-interfaces USB 0 Number of HW-interfaces other 1 Supporting protect for EPDIP No Supporting protect for EPDIPBUS No Supporting protect for EPDIPBUS No Supporting protect for EAN No Supporting protect for EAN No Supporting protect for KNX No Supporting protect for MOBUS No Supporting protect for FROFINET (SOUNCE) No Supporting protect for FROFINET (SOUNCE) <td></td> <td></td> <td></td>			
Number of HW-interfaces Wireless 0 Number of HW-interfaces other 1 Supporting protect of TCP/IP % Supporting protect of MMDBUS % Supporting protect for MUNEUR % Supporting protect for SULDNET % Supporting protect for SULDNET % Supporting protect for FROFINET CBA % Supporting protect for FROFINET CBA % Supporting protect for FROFINET CBA % Supporting protect of Fromdetion Februal Call % Supporting protect of Fromdetion Februal Call % Supporting protect of for			
Number of HW-interfaces USB Incompany of HW-interfaces other 1 Supporting protocol for TCPIP No Supporting protocol for FRDRIBUS No Supporting protocol for FRDRIBUS No Supporting protocol for INTEBUS No Supporting protocol for MNX No Supporting protocol for MDRIBUS No Supporting protocol for MDRIBUS No Supporting protocol for Duba-Highway No Supporting protocol for PROFINET IO No Supporting protocol for FROHENET IO No Supporting protocol for FROHENET CBA No Supporting protocol for February No Supporting protocol for February No Supporting protocol for Duba-Highway No S			
Number of HW-interfaces other 1 Supporting protocol for TCPIPP No Supporting protocol for PROFIBUS No Supporting protocol for EAN No Supporting protocol for LCNA No Supporting protocol for INTERBUS No Supporting protocol for MCDBUS No Supporting protocol for MDDBUS No Supporting protocol for Data-Highway No Supporting protocol for Duta-Highway No Supporting protocol for DUCONET No Supporting protocol for DUCONET No Supporting protocol for PROFINET DA No Supporting protocol for PROFINET BA No Supporting protocol for PROFINET BA No Supporting protocol for PROFINET BA No Supporting protocol for Productation Fielduse No Supporting protocol for Faundation Fielduse No Supporting protocol for Faundation Fielduse No Supporting protocol for AS-Interface Safety at Work No Supporting protocol for AS-Interface Safety at Work No Supporting protocol for SafetyBUS p No			
Supporting protocol for TCP/IP No Supporting protocol for PADFIBUS No Supporting protocol for CAN No Supporting protocol for ASI No Supporting protocol for KNX No Supporting protocol for MODUS No Supporting protocol for MODUS No Supporting protocol for Data-Highway No Supporting protocol for Duti-Net No Supporting protocol for Duti-Net No Supporting protocol for Duti-Highway No Supporting protocol for PERCHACT (BA No Supporting protocol for PERCHACT (BA No Supporting protocol for EtherActPutP No Supporting protocol for EtherActPutP No Supporting protocol for PERCHACT <td></td> <td></td> <td></td>			
Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS No Supporting protocol for KIX No Supporting protocol for KIX No Supporting protocol for MODBUS No Supporting protocol for MODBUS No Supporting protocol for Bevielhet No Supporting protocol for EMPA No			
Supporting protocol for CAN No Supporting protocol for MSTERIUS No Supporting protocol for ASI No Supporting protocol for KNX No Supporting protocol for Data-Highway No Supporting protocol for Deta-Highway No Supporting protocol for Deta-Highway No Supporting protocol for Deta-Highway No Supporting protocol for SUCONET No Supporting protocol for FOUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET IO No Supporting protocol for FREROS No Supporting protocol for FREROS No Supporting protocol for Foundation Fieldbus No Supporting protocol for FREROS No Supporting protocol for FREROS No Supporting protocol for FREROS No Supporting protocol for EtherNet/IP No Supporting protocol for InterRERUS Safety No Supporting protocol for InterRERUS Safety No Supporting protocol for PROFIsafe No Radio standard Bluebooth			
Supporting protocol for NASI No Supporting protocol for KNX No Supporting protocol for MOBUS No Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for DeviceNet No Supporting protocol for DEVICENT No Supporting protocol for ENDINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for Feducation Fieldus No Supporting protocol for FAS-Interface Safety at Work No Supporting protocol for EMERACIS No Supporting protocol for INTERBUS-Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for FORIFEBUS-Safety No Supporting protocol for FORIFEBUS-Safety No Supporting protocol for Other bus systems No Radio standard Bluetooth No Radio standard GSM No Radio			
Supporting protocol for ASI No Supporting protocol for MDBUS No Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET ICI No Supporting protocol for PROFINET GA No Supporting protocol for Foundation Fieldbus No Supporting protocol for Foundation Fieldbus No Supporting protocol for Foundation Fieldbus No Supporting protocol for Shaferface Safety at Work No Supporting protocol for A DeviceNet Safety No Supporting protocol for PROFIsafa No Supporting protocol for PROFIsafa No Supporting protocol for PROFIsafa No Supporting protocol for SafetyBUS p No Radio standard WILA No211 No			
Supporting protocol for NNX No Supporting protocol for MODBUS No Supporting protocol for DeviceNet No Supporting protocol for DeviceNet No Supporting protocol for SUCONET No Supporting protocol for PROFINET OR No Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for FRORIAGE No Supporting protocol for FRORIAGE No Supporting protocol for FRORIAGE No Supporting protocol for Frondation Fieldbus No Supporting protocol for EtherRUP No Supporting protocol for DeviceNet Safety No Supporting protocol for DeviceNet Safety No Supporting protocol for PROFISafe No Supporting protocol for SafetyBUS 9 No Supporting protocol for SafetyBUS 9 No Supporting protocol for SafetyBUS 9 No Radio standard Bluetooth No Radio standard WLAN 802.1 No Radio standard UMAN 802.1 No Radio standard UMAN 802.1 No			
Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for SucoNET No Supporting protocol for PROFINET (O No Supporting protocol for PROFINET (DA No Supporting protocol for PROFINET (BA No Supporting protocol for PROFINET (BA No Supporting protocol for Femoladation Fieldbus No Supporting protocol for Femoladation Fieldbus No Supporting protocol for EtherNet/IP No Supporting protocol for As-Instace Safety at Work No Supporting protocol for DeviceNet Safety No Supporting protocol for DeviceNet Safety No Supporting protocol for PROFisafe No Supporting protocol for SafetyBUS p No Radio standard WLAN 802.1 No Radio standard Buetoth No Radio standard GPRS No			
Supporting protocol for Data-Highway No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for SUCONET 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 DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsate No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for Other bus systems No Radio standard Bluetooth No Radio standard GPRS No Radio standard GPRS No Radio standard GPRS No Radio standard GPRS No Radio standard GPR No Radio standard GPR No Radio stan			
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 PROFINET CBA No Supporting protocol for FROFINET CBA No Supporting protocol for FROHICE CBA No Supporting protocol for Foundation Fieldbus No Supporting protocol for EtherNevIPP No Supporting protocol for AS-Interface Safety at Work No Supporting protocol for PROFISER No Supporting protocol for PROFISER No Supporting protocol for SafetyBUS 9 No Radio standard Bluetoch No Radio standard GPRS No Radio standard GPRS No Radio standard GSM No Radio standard GSM No Radio standard GSM 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 PROFINET CBA No Supporting protocol for SEREOS No Supporting protocol for For Undation Fieldbus No Supporting protocol for SalerNavI/P No Supporting protocol for DeviceNet Safety No Supporting protocol for PROFIsafe No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS Safety No Radio standard Bluetoth No Radio standard WLAN 802.11 No Radio standard GPRS No Radio standard GPRS No Radio standard UMTS No Iol Ink master No System accessory Yes			
Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for AS-Interface Safety at Work Supporting protocol for AS-Interface Safety at Work Supporting protocol for AS-Interface Safety at Work Supporting protocol for PROFINET CBA Supporting protocol for MERBUS-Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for Safety BUS p Supporting protocol			
Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNevIP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for INTERBUS-Safety Supporting protocol for INTERBUS-Safety Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for SafetyBUS-Safety Supporting protocol for ObeviceNet Safety Supporting protocol for SafetyBUS-Safety Supportin			
Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for Other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard UMTS IO link master No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection			
Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP No Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GSRS Radio standard GSM No Radio standard GMTS No System accessory System accessory Pes Degree of protection (IP) Degree of protection (NEMA) Type of electric connection			
Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFisafe Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for Other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GSRS Radio standard GSM Radio standard GSM Radio standard UMTS IO link master No System accessory Pes Degree of protection (IP) Degree of protection (NEMA) Type of electric connection			
Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for SafetyBUS-Safety No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard GSM Radio standard UMTS No System accessory Pes Degree of protection (IP) Degree of protection (NEMA) Type of electric connection			
Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p Supporting protocol for other bus systems No Supporting protocol for other bus systems No Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard GSM Radio standard UMTS No System accessory Ves Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No Supporting protocol for AS-Interface Safety at Work No No Supporting protocol for PROFIsafe No No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No No Supporting protocol for SafetyBUS p No Supp			
Supporting protocol for INTERBUS-Safety Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GPRS Radio standard GSM Radio standard GSM Radio standard UMTS IO link master System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection Supporting protocol for INTERBUS-Safety No No No Screw-/spring clamp connection			
Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 No Radio standard GPRS Radio standard GSM Radio standard GSM Radio standard UMTS No System accessory Ves Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No No No Screw-/spring clamp connection			
Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard UMTS No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No No No Supporting protocol for PROFIsafe No No No No Strew-/spring clamp connection			
Supporting protocol for SafetyBUS p Supporting protocol for other bus systems No Radio standard Bluetooth No Radio standard WLAN 802.11 No Radio standard GPRS No Radio standard GSM Radio standard UMTS No IO link master No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No No Supporting protocol for SafetyBUS p No No No System accessory Yes Degree of protection (NEMA) Screw-/spring clamp connection			
Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GPRS Radio standard GSM Radio standard UMTS No Radio standard UMTS No IO link master System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No No System accessory Screw-/spring clamp connection			
Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No Radio standard GSM Radio standard UMTS No IO link master No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No No No Screw-/spring clamp connection			
Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard UMTS No Radio standard UMTS No IO link master No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No Screw-/spring clamp connection			
Radio standard GPRS Radio standard GSM No Radio standard UMTS No IO link master No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection No Screw-/spring clamp connection			
Radio standard GSM Radio standard UMTS No No IO link master No System accessory Pes Degree of protection (IP) Degree of protection (NEMA) Type of electric connection Screw-/spring clamp connection			
Radio standard UMTS No 10 link master No System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection Screw-/spring clamp connection			
IO link master System accessory Pes Degree of protection (IP) Degree of protection (NEMA) Type of electric connection Screw-/spring clamp connection			
System accessory Degree of protection (IP) Degree of protection (NEMA) Type of electric connection Yes IP20 Screw-/spring clamp connection			
Degree of protection (IP) Degree of protection (NEMA) Type of electric connection IP20 Screw-/spring clamp connection			
Degree of protection (NEMA) Type of electric connection Screw-/spring clamp connection			
Type of electric connection Screw-/spring clamp connection			IP20
Fieldhus connection over separate hus coupler possible	Type of electric connection		Screw-/spring clamp connection
	Fieldbus connection over separate bus coupler possible		Yes
Rail mounting possible Yes			Yes
Wall mounting/direct mounting No			
Front build in possible 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. 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)

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

Handbuch XN300 digitale E/A-Module, analoge E/A-Module, Stromversorgungsmodule, Technologiemodule MN050002 - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050002_DE.pdf
Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules MN050002 - English	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN050002_EN.pdf
f1=1457&f2=1282&f3=1836;Download Wizard XN300-Assist	http://applications.eaton.eu/sdlc?LX=11&