DATASHEET - XN-312-GW-CAN



Gateway to bus system CANopen

Part no. XN-312-GW-CAN Catalog No. 178782 Alternate Catalog XN-312-GW-CAN

Powering Business Worldwide*

Delivery program

Function	XN300 gateway
Connection technique	Push-in spring-cage terminal
Function	CANopen XN-312 gateway for XN300
Short Description	XN300 CANopen gateway for running XN300 slice modules on a CANopen field bus
Field bus connection	CANopen®
Service interface	Mini USB Type B
For use with	XN-322

Technical data

General			
Standards			EN 61000-6-2 EN 61000-6-4 EN 61131-2
Approvals			
Approvals			CE, cULus EAC
shipping classification			DNV GL
			DNV-GL MARITIME
Potential isolation			yes
Ambient temperature		°C	-25 - +85
Storage	θ	°C	-40 - +80
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	+ 85
Relative humidity			5-95%, non condensing
Vibration			according to IEC/EN 60068-2-6
Mechanical shock resistance		g	according to IEC 60068-2-27
Drop and topple			As per IEC 60068-2-31, free fall as per IEC 60068-2-32
Degree of Protection			IP20
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	EN 61131-2
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	EN 61131-2

Burst			EN 61131-2
Surge			EN 61131-2
Radiated RFI		V	EN 61131-2
Emitted interference (radiated, high frequency)	(30230 MHz) / (2301000 MHz)	dB	EN 61131-2
Voltage fluctuations/voltage dips			EN 61131-2
Type test			EN 61131-2
Static heat dissipation, non-current-dependent	P _{vs}	W	2.4
Current consumption for +24 V power supply	1	mA	(typ.) max. 2 A
Dimensions (W x H x D)		mm	16.8 x 104.2 x 80.3
Terminations			
Rated data			according to VDE 0611 Part 1/8.92/IEC/EN 60947-7-1
Connection design in TOP direction			Push-In spring-cage terminals
Stripping length		mm	10
Connectable conductors			
Solid		mm ²	0.2 -1.5
Flexible without ferrule		mm ²	0.2 -1.5
Flexible with ferrule		mm ²	0.25 -1.5
Gauge pin IEC/EN 60947-1			A1
Networking			
Bus			CANopen®
Bus protocol			CANopen®
Maximum station configuration			32 modules (XN-322) in slice design
System supply	U_{sys}	V DC	24
Coordination type "2"	U_{sys}	V DC	4.7 5.3
Coordination type "1"	U_{sys}	V DC	19.2 30
Field voltage	U_{L}		24 V DC
Admissible range			18-30 V DC
Residual ripple		%	According to EN 61131-2
Service interface			Mini USB Type B
Connection design for field bus			Push-In spring-cage terminals
Data transfer rate		kBit/s	10, 20, 50, 125, 250, 500, 800, 1000
Data transfer rate setting			Through DIP switch or automatically
Addressing			DIP switches
Field bus termination			Via DIP switch

Design verification as per IEC/EN 61439

booign formoution as por 120, 211 or 100			
Technical data for design verification			
Static heat dissipation, non-current-dependent	P_{vs}	W	2.4
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	85
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.
10.2.3.3Verification of resistanceofinsulatingmaterialstoabnormalheatandfireduetointernalelectriceffects			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

FLC 5 (EGUUUU	124) / FI	leiubus	, ueceni	ii. peripiii	ery - ci	ommu	IIICat	1011 1110	uule (ECOOT	004)						
									′ 0	/ =:		 			 		

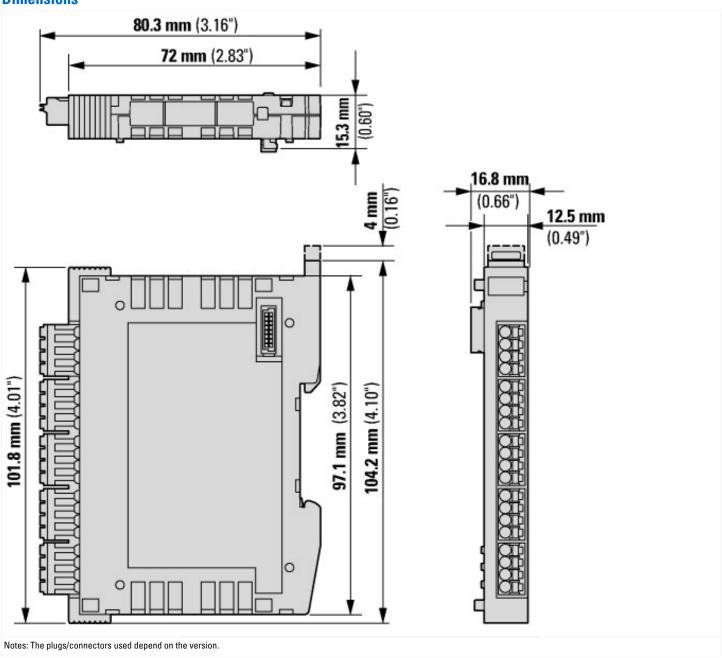
Electric engineering, automation, process control engineering / Control / Field bus, (ecl@ss10.0.1-27-24-26-08 [BAA073013])	decentralized po	Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss10.0.1-27-24-26-08 [BAA073013])						
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					
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 SERCOS			No					
Supporting protocol for PROFINET IO			No					
Supporting protocol for PROFINET CBA			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					
IO link master			No					
System accessory			Yes					
Degree of protection (IP)			IP20					
With potential separation			Yes					
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. 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	UL508; CE
UL File No.	E135462

Dimensions



Additional product information (links)

IL050017ZU Instruction leaflet for Gateway XN-312-GW-CAN							
IL050017ZU Instruction leaflet for Gateway XN-312-GW-CAN https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL050017ZU2018_02.pdf							
Manual XN300 gateway XN-312 CANopen MN050003							
Handbuch XN300 Gateway XN-312 CANopen MN050003 - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050003_DE.pdf						
Manual XN300 gateway XN-312 CANopen MN050003 - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050003_EN.pdf						
f1=1457&f2=1282&f3=1836;Download Wizard XN300-Assist	http://applications.eaton.eu/sdlc?LX=11&						
Product overview (WEB)	http://www.eaton.eu/xn300						