#### **DATASHEET - XN-322-8D0-P05**



Digital output module, 8 digital outputs short-circuit proof 24 V DC/0.5 A each, pulse-switching

Powering Business Worldwide\*

Part no. XN-322-8D0-P05 Catalog No. 183175

Alternate Catalog XN-322-8DO-P05

No

### **Delivery program**

zemen, program	
Function	XN300 I/O slice modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 digital output module for XN300
Short Description	8 digital outputs short-circuit proof 24 V DC/0.5 A each, pulse-switching
For use with	XN-312

### **Technical data**

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Standards			IEC/EN 61131-2 IEC/EN 61000-6-2 IEC/EN 61000-6-4
Approvals			
Approvals			CE, cULus EAC
shipping classification			DNV GL
			DNV-GL MARITIME
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	θ	°C	-20 - +85
Degree of Protection			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  Terminations	Semisinusoida 15 g/11 ms	Impacts	18
Rated operational data			
Insulating material group			1
Overvoltage category / pollution degree			III/3
Rated operating voltage		V	160
Maximum load current/cross-sectional area			X (not specified by plug manufacturer)
Connection design in TOP direction		A / IIIIII	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 <sup>2</sup>	0.2 - 1.5
"f" flexible H 07V-K		mm mm <sup>2</sup>	0.2 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules			0.25 - 1.5
crimped gas-tight)		mm <sup>2</sup>	0.23 - 1.3
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm <sup>2</sup>	0.25-1,5
Cable size		AWG	24 - 16
Supply  Payor guarky Japan			
Power supply - Input  Power supply			
Current consumption for +5 V power supply (internal)	1	mA	(typ.) 40
Current consumption for +24 V power supply	1		
Potential isolation	PE	mA	(typ.) none
rotential Isolation	(polyethylene)		no
Rated operating voltage	Ue	V	24 (terminal +1)
Rated operational current	le	Α	4
Potential isolation			no
Heat dissipation			
Heat dissipation (without active channels)		W	0.225
Max. heat dissipation		W	1.472
Notes on heat dissipation			The max. heat dissipation is specified as the maximum power produced inside the device's housing.
Digital outputs Channels		Quantity	0
		quantity	U
Output voltage	п	V DC	24
Output voltage, nominal value	Ua	V DC	24
Low level	U <sub>a</sub> L	V	0V < Ua <sub>L</sub> < 1V
High level	U <sub>a</sub> H	V	Ue - 1V < Ua <sub>H</sub> < Ue
Output current		Α .	
Output current, nominal value	I <sub>a</sub> L	Α	0.5
Low signal	I <sub>A</sub>	mA	$0 < la_L < 0.5$
High level	I <sub>a</sub> H	mA	$0 \le la_H \le 500$
Short-circuit rating			Yes

Potential isolation		Output against output	no
Heat dissipation (internal, per active channel)		W	0.095
Utilization factor	%	g	100% (# IAmax = 4A)
Delay on signal change and resistive load			
from Low to High level		μs	< 100
From High to Low signal		μs	< 100
Resistive load			
Resistive load		Ω	> 48
Notes on digital outputs			Protective devices must be installed directly at the inductive load in order to prevent interference.

## Design verification as per IEC/EN 61439

In	Α	0
P <sub>vid</sub>	W	0
P <sub>vid</sub>	W	0
P <sub>vs</sub>	W	1.472
P <sub>diss</sub>	W	0
	°C	0
	°C	55
		IP20
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
t		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
		Does not apply, since the entire switchgear needs to be evaluated.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
		Does not apply, since the entire switchgear needs to be evaluated.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	P <sub>vid</sub> P <sub>vid</sub> P <sub>vs</sub>	P <sub>vid</sub> W P <sub>vid</sub> W P <sub>vs</sub> W P <sub>diss</sub> W °C °C

#### **Technical data ETIM 7.0**

PLC's (EGNON2A) / Fieldbus	decentr parinhary	/ - digital I/O module (EC001599)
I LU 3 (LUUUUUZ4// I ICIUDUS,	uecenn, pempilery	- ulgital i/O illouule (Lood 1333)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss10.0.1-27-24-26-04 [BAA055014])

[BAAU55014])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30

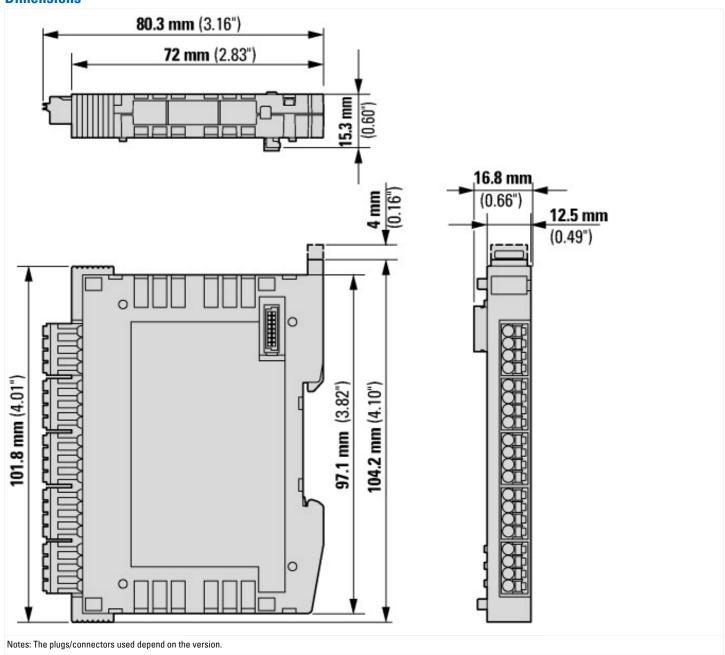
Number of digital adaptes   Digital impats configurable   Digita	Voltage type of supply voltage		DC
Number of digital outputs         8         8           Digital insusts configurable         6         No           Unput current at Signal 1         mA         0           Permitted voltage at input         mA         0           Type of voltage (input voltage)         V         0         0           Output current         A         0.5         0           Permitted voltage (input voltage)         V         0         0           Output current         A         0.5         0           Permitted voltage (input voltage)         V         0         0           Permitted voltage (input voltage)         V         0         0           Start-circuit protection, autjust available         V         0         0           Number of HW-interfaces industrial Ethernet         V			
Digital imputs configurable         No           Digital computs configurable         nA         0           Input currents a logis           nA         0           Permitted valtage at input         V         0         0           Type of voltage (input voltage)         BA         0         0           Output current         AB         3         0           Or permitted valtage at autujut         AB         3         0           Type of outputs voltage)         BA         0         0           Number of HW-interfaces face floating Ellement         BA         0         0           Number of HW-interfaces face face floating Ellement         BA         0         0           Number of HW-interfaces face face floating Ellement         BA         0         0           Number of HW-interfaces face face face floating Ellement         BA         0         0           Number of HW-interfaces face face face face face face face face			
Optical conquetes configurable         Mode         Control           Input current at signal 1         0 <td></td> <td></td> <td></td>			
Input current a signal 1         n/A         0           Parmitted valtage at input         v         0           Type of volitage linguit valtage)         v         0           Outgot duting county         v         None           Detrained valtage at anoth         v         0           Opper discussion valtage at county         v         0           Yope of outgot valtage         v         0           Short circuit protection, outguts available         v         0           Number of HW-interfaces installational Ehenet         v         0           Number of HW-interfaces weld         v         0         0			
Permitted voltage injunt voltage         V         0 - 0           Type of deligate ortustage         C         DC           Outgot current         A         0           Outgot current         A         0           Permitted voltage at outgot         A         0           Type of outgot voltage         P         0           Short-circust protection outgots available         P         0           Number of HW-interfaces industrial Ethornt         0         0           Number of Interfaces PROFINET         0         0           Number of HW-interfaces RS-422         0         0           Number of HW-interfaces RS-488         0         0           Number of HW-interfaces Sardel         0         0           Number of HW-interfaces Wireless         0         0           Number of HW-interfaces Sardel         0         0           Number of HW-interfaces Wireless         0         0           Number of HW-interfaces Stream         0         0           Supporting protector for TCPIP         0         0           Supporting protector for TCPIP         0         0           Supporting protector for MOBUS         0         0           Supporting protector for MDBUS			
Type of voltage (input voltage)         Chance           Type of (ighla Jurpat)         A         5.0           Output current         A         0.5           Permitted voltage at output         V         0.30           Type of output voltage         D         C           Short-circle protection, outputs available         P         79         79           Number of Hird-rise industrial Ethernet         P         0         0           Number of Hiv-interfaces BROINET         P         0         0           Number of Hiv-interfaces RS-422         0         0           Number of Hiv-interfaces RS-435         0         0           Number of Hiv-interfaces serial TY         0         0           Number of Hiv-interfaces serial TY         0         0           Number of Hiv-interfaces wireles         0         0           Supporting protected for FDFIBUS         0         0           Supporting protected for FDFIBUS         0         0           Supporting protected for ASI         0         0 <td></td> <td></td> <td></td>			
Type of dighal adapta         None           Output current         A         55           Permined voltage at output         V         0-30           Yope of output voltage         DC           Short-circuit protection, outputs available         Yes           Number of HW-interfaces industrial Ethernet         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-486         0           Number of HW-interfaces parallel         0           Number of HW-interfaces wireless         0           Supporting protocol for TCP/IP         No           Supporting protocol for FOPIFBUS         No           Supporting protocol for FORBUS         No           Supporting protocol for ASI         No <t< td=""><td></td><td>V</td><td></td></t<>		V	
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Number of HW-interfaces RS-222         0           Number of HW-interfaces RS-425         0           Number of HW-interfaces serial TTY         0           Number of HW-interfaces Suffer         0           Supporting protocol for LW-interfaces Suffer         No           Supporting protocol for FROFIBUS         No           Supporting protocol for LNX         No           Supporting protocol for Data-lighway         No           Supporting protocol for EUCNET         No      <	Number of HW-interfaces industrial Ethernet		0
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Supporting protocol for EtherNet/IP  No Supporting protocol for AS-Interface Safety at Work  No Supporting protocol for DeviceNet Safety  No	•.		
Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  No			
Supporting protocol for DeviceNet Safety No	11 11		
Supporting protocol for PROFIsafe  No			
Supporting protocol for SafetyBUS p No			
Supporting protocol for other bus systems  Yes			
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  Page of protection (IP)			
Degree of protection (IP)  IP20  Second (Aprile approaching to the protection of the			
Type of electric connection  Screw-/spring clamp connection	type of electric conflection		Screw-/spring cramp connection

Time delay at signal exchange	ms	0 - 0.1
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		None
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

 $Handbuch\ XN300\ digitale\ E/A-Module,\ analoge\ https://es-assets.eaton.com/DOCUMENTATION/AWB\_MANUALS/MN050002\_DE.pdf$ E/A-Module, Stromversorgungsmodule, Technologiemodule MN050002 - Deutsch

Manual XN300 digital I/O modules, analog I/O  $https://es-assets.eaton.com/DOCUMENTATION/AWB\_MANUALS/MN050002\_EN.pdf$ modules, power supply modules, technology modules MN050002 - English

f1=1457&f2=1282&f3=1836;Download Wizard http://applications.eaton.eu/sdlc?LX=11&amp XN300-Assist