

Digital I/O module, 8 digital inputs and 8 digital outputs 24 V DC each, pulse-switching

Powering Business Worldwide

Part no. XN-322-16DIO-PD05
Article no. 183179

Catalog No. XN-322-16DIO-PD05

Delivery programme

Photo	
Function	XN300 I/O slice modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 digital input and output module for XN300
Short Description	8 digital inputs and 8 digital outputs 24 V DC each, pulse-switching
Description	Digital I/O module with eight 24 VDC / 3.7 mA (EN61131-2 type 1) inputs with a 0.5 ms input filter. Eight 24 VDC / 0.5 A short-circuit proof outputs and undervoltage diagnostics for the power supply rails.
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 4 4 4 4 4 4 4 4 5 5 6 6 6 6 6 6 7 7 7 7 7 7 7	Electromagnetic fields	(1,42) / (2		10/3/1
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Climatic proofing Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3 Air pressure (operation) Relative humidity Dry heat to IEC 60068-2-2 Damp heat as per EN 60068-2-3 0 - 95%, non condensing	Umgebungsbedingungen			
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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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	Temperature			
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Part	Medianical Shock resistance		ппрасть	
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New Politician degree	Rated operational data			
Maximum Load current/cross-sectional series and month of contront/cross-sectional series and month of control female and month of control	Insulating material group			l .
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Parameter of the segment NOP directed on the segment NOP directed NOP dir	Rated operating voltage		V	160
String pring from the BECEN 1935-7-1 1935 193			A / mm²	1 1 1
Search S	Connection design in TOP direction			Push-in spring-cage terminal (plug-in connection)
* self-lawer-ling of MPV-U * file with ferrules without plastic collar according to DIN 44228-1 (ferrules co	Stripping length		mm	10
Preside HOTV-V	Gauge pin IEC/EN 60947-1			A1
The bodie H DV-K The bodie	Anschlussvermögen			
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### Company of the desire of	"f" flexible H 07V-K		mm ²	0.2 - 1.5
See the size of t			mm ²	0.25 - 1.5
Power supply			mm ²	0.25-1,5
Power supply - Input Power supply Current consumption for +5 V power supply (internal) Current consumption for +2 V power supply (internal) Current consumption for +2 V power supply (internal) Potential isolation Potential isolation Rated operation gloraty Rated operation ol current Potential isolation Rated operation ol current Potential isolation Rated sissipation (without active channels) Max. Heart dissipation (without active channels) Notes on heart dissipation Notes on heart dissipation in specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is specified as the maximum power produced inside the device's housing. Notes on heart dissipation is s	Cable size		AWG	24 - 16
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Current consumption for +24 V power supply Potential isolation				
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Channels Number 8 input voltage V DC 24 Nominal input voltage Ue V DC 24 Low level UeH V 0 < UeL < +8	Notes on heat dissipation			
Nominal input voltage Nominal input voltage Low level Low level High level Input current, nominal value Input current, nominal value Low level/active level Ithigh level/active level Input delay Ithigh gedge Vocatioal isolation Input current	Digital inputs			
Nominal input voltage Low level High level High level Input current Input current, nominal value Low level/active level High level/active level Input delay Input del	Channels		Number	8
Low level U_eL V $0 < U_eL < +8$ High level U_eH V $+14 < UeH < +30$ Input current Input current, nominal value I_e mA 3.7 Low level/active level I_eL mA $≤ 1.1$ High level/active level I_eH mA $≥ 2.3$ Input delay I_eH $I_$	Input voltage			
High level Verrent Verrent Verrent, nominal value Input current, nominal v	Nominal input voltage	U _e	V DC	24
nput current, nominal value Input current, nominal value Low level/active level High level/active level High level/active level I eH MA ≥1.1 May ≥2.3 Anput delay I eH	Low level	U _e L	V	$0 < U_e L < +8$
Input current, nominal value Low level/active level High level/active level High level/active level TRising edge tFalling edge Potential isolation Input to I	High level	U _e H	V	+14 < UeH < +30
Low level/active level High level/active level I leH MA ≥2.3 Input delay tRising edge tFalling edge Potential isolation I leH MA ≥1.1 ≥2.3 □ volume (a) vol	Input current			
Low level/active level I _e L mA ≤1.1 High level/active level I _{eH} mA ≥2.3 nput delay μS <5000	Input current, nominal value	I _e	mA	3.7
High level/active level Input delay tRising edge tFalling edge Potential isolation High level/active level Input delay µs < 5000 Input to input Inp	Low level/active level		mA	≤1.1
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t _{Rising edge} t _{Falling edge} μs < 5000 ups < 5000 Input to input inpu		···		
tFalling edge			μs	< 5000
Potential isolation Input to input				
input				
Heat dissipation (per active channel) W 0.088	i otenuai isulduuli			iio
	Heat dissipation (per active channel)		W	0.088

Digital inputs

Digital inputs			
Notes on digital inputs			Inputs as per EN61131-2 Type 1
Digital outputs			
Channels		Quantity	8
Output voltage			
Output voltage, nominal value	U_a	V DC	24
Low level	U_aL	V	$0V < Ua_L < 1V$
High level	U_aH	V	$Ue-1V$
Output current		Α	
Output current, nominal value	I_aL	Α	0.5
Low signal	I_{A}	mA	$0 < la_L < 0.5$
High level	I _a H	mA	$0 \le Ia_H \le 500$
Short-circuit rating			Yes
Potential isolation			no
Heat dissipation (internal, per active channel)		W	0.095
Utilization factor	%	g	100% (Σ IAmax = 4A)
Delay on signal change and resistive load			
from Low to High level		μs	< 100
From High to Low signal		μs	< 150
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

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 _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	2.615
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
EC/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.

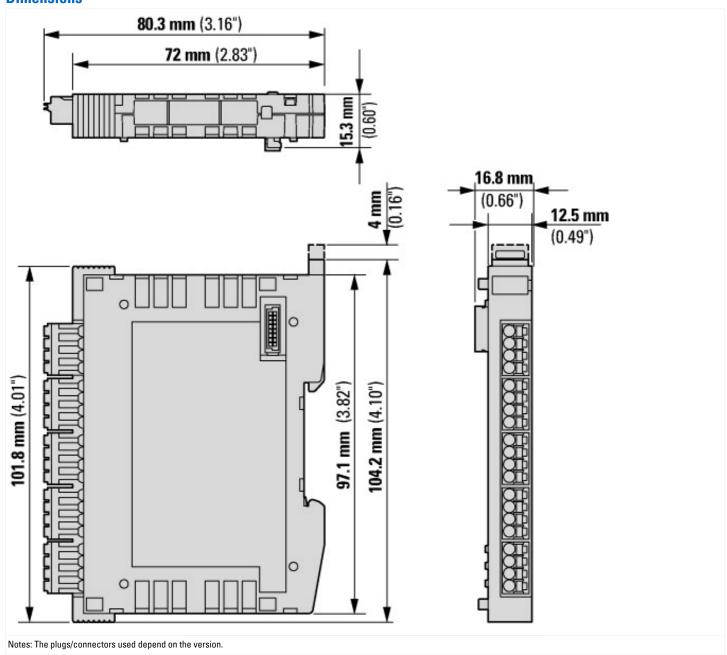
R.C. s. G68900041 Feathers, decemb periphary - digital VD module ISC0004599 Leschier eginneeme, submischier, process centrol engineering / Gorard / Field lans, decembralized paripheral - digital I,O madule (seldissis. 1-27-24-24 Mark ARCHORIT) Supply rottings & CD IRC. Supply rotting police of Irc. Supply rotting pol			leaflet (IL) is observed.
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IRAASPERT Supply verbage AC BIR V	PLC's (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)		
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Supply voltage OC V 8 - 30 Voltage type of supply voltage DC Number of digital outputs B Upplied injurities configurable No Oligial injurities configurable No Injurial injurities configurable V 3-2 Upper of unique at signal 1 V 3-3 Fermitted voltage at injurt V 3-0 Type of digital autput A 5- Type of digital autput A 6- Type of digital autput A 6- Type of vidinger in put at type of	Supply voltage AC 50 Hz	V	0 - 0
Wortspeel yoyan of supply voitinage B Number of diginal inquits 8 Digital conputs 8 Digital conjust configurable No Digital conjust configurable No Digital conjust configurable No Digital conjust configurable Vo 30-30 Unjust current A 25 Type of digital coliput A 5 Unjust current A 5 Permitted visitings at coliput V 0-30 Permitted visitings at coliput D 0 Short-circult protection, unjoint available No 0 Number of HW-interfaces industrial Ethernet 0 0 Number of HW-interfaces industrial Ethernet 0 0 Number of HW-interfaces industrial Ethernet 0 0 Number of HW-interfaces Windrafes see industrial Ethernet 0 0 <t< td=""><td>Supply voltage AC 60 Hz</td><td>V</td><td>0 - 0</td></t<>	Supply voltage AC 60 Hz	V	0 - 0
Number of digital injusts Number of digital origuts Capitals Digital origuts candigurable Digital origu	Supply voltage DC	V	18 - 30
Number of digital corputs Signate injunts configurable Signate injunts Signate injunt	Voltage type of supply voltage		DC
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Injust current at signal 1 injust 2 injus 2 inju	Digital inputs configurable		No
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Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety No	Supporting protocol for SERCOS		No
Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety No	Supporting protocol for Foundation Fieldbus		No
Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety No	Supporting protocol for EtherNet/IP		No
Supporting protocol for DeviceNet Safety 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		Yes
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
0 link master		No
System accessory		Yes
Degree of protection (IP)		IP20
Type of electric connection		Screw-/spring clamp connection
Time delay at signal exchange	ms	0 - 5
Fieldbus connection over separate bus coupler possible		No
Rail mounting possible		Yes
Nall 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
<i>N</i> idth	mm	16.8
Height	mm	104.2
	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