

# Digital input module, 8 digital inputs 24 V DC each, pulse-switching, 0.5 ms

Powering Business Worldwide\*

Part no. XN-322-8DI-PD Article no. 183172

Catalog No. XN-322-8DI-PD

# **Delivery programme**

Photo	
Function	XN300 I/O slice modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 digital input module for XN300
Short Description	8 digital inputs 24 V DC each, pulse-switching, 5.0 ms
Description	Digital I/O module with eight 24 V DC / 3.7 mA (EN61131-2 type 1) inputs with a 0.5 ms input filter.
For use with	XN-312

## **Technical data**

#### General

General			
Standards			IEC/EN 61131-2 IEC/EN 61000-6-2 IEC/EN 61000-6-4
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
Umgebungsbedingungen			
Klima			
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			

Betrieb		°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
/ibrations	3,5 mm / 1 g	Hz	5 - 8.4 / 8.4 -150
Mechanical shock resistance	Semisinusoida 15 g/11 ms	Impacts	18
erminations			
Rated operational data			
Insulating material group			I
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
Bauge pin IEC/EN 60947-1			A1
Anschlussvermögen			
"e" solid H07V-U		mm <sup>2</sup>	0.2 - 1.5
"f" flexible H 07V-K		mm <sup>2</sup>	0.2 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm <sup>2</sup>	0.25 - 1.5
"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
Gupply			
Power supply - Input			
Power supply			
Current consumption for +5 V power supply (internal)	1	mA	(typ.) 35
Current consumption for +24 V power supply	1	mA	(typ.) none
Potential isolation	PE (polyethylene)		no
Heat dissipation			
Heat dissipation (without active channels)		W	0.2
Max. heat dissipation		W	1.318
Notes on heat dissipation			The max, heat dissipation is specified as the maximum power produced inside device's housing.
ligital inputs			
Channels		Number	8
nput voltage			
Nominal input voltage	U <sub>e</sub>	V DC	24
Low level	U <sub>e</sub> L	V	$0 < U_e L < +8$
High level	U <sub>e</sub> H	V	+14 < UeH < +30
nput current			
Input current, nominal value	I <sub>e</sub>	mA	3.7
Low level/active level	I <sub>e</sub> L	mA	≤1.1
High level/active level	I <sub>eH</sub>	mA	≥2.3
nput delay	GII		
		μs	< 5000
trising edge			
<sup>†</sup> Falling edge		μs	< 5000
Potential isolation		Input to input	
leat dissipation (per active channel)		W	0.088
ligital inputs			Inputs as per EN61131-2 Type 1
Votes on digital inputs			Inpute ac par EN61121 2 Ivna 1

Technical data for design verification

Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	1.318
Heat dissipation capacity	P <sub>diss</sub>	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 6.0**

PLC's (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss8.1-27-24-26-04 [BAA055011]) ٧ 0 - 0 Supply voltage AC 50 Hz Supply voltage AC 60 Hz ٧ 0 - 0 ٧ Supply voltage DC 18 - 30 DC Voltage type of supply voltage Number of digital inputs 8 Number of digital outputs 0 No Digital inputs configurable Digital outputs configurable No Input current at signal 1 mΑ 2.3 ٧ Permitted voltage at input -30 - 30 DC Type of voltage (input voltage) Type of digital output Output current Α 0 ٧ Permitted voltage at output 0 - 0 DC Type of output voltage Short-circuit protection, outputs available No

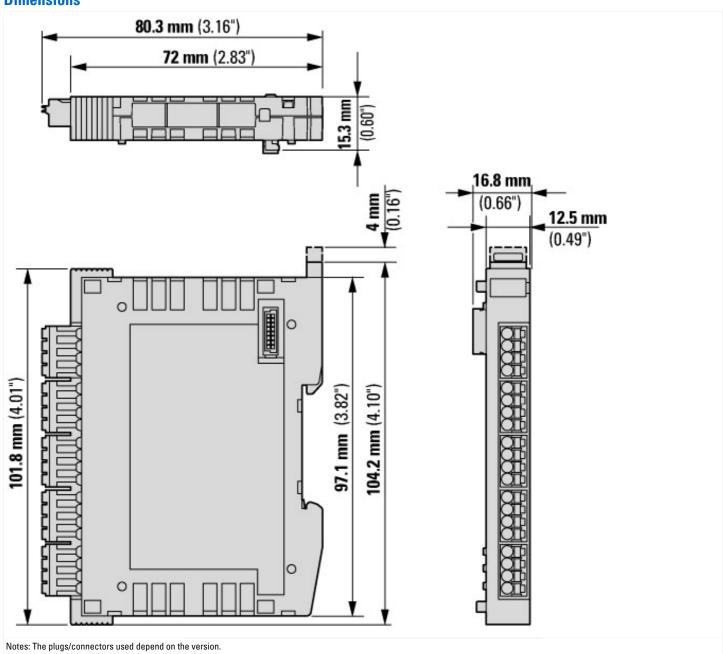
Number of HOP-interfaces RS-222         0           Number of HOP-interfaces RS-222         0           Number of HOP-interfaces RS-224         0           Number of HOP-interfaces RS-224         0           Number of HOP-interfaces RS-224         0           Number of HOP-interfaces serial TTY         0           Number of HOP-interfaces where serial reserved         0           Number of HOP-interfaces where serial reserved         0           With optical interface         0           Supporting protects for TOPP         0           Supporting protects for CAN         0           Supporting protects for LOR         0	Number of III// interference industrial Ethernet		0
Number of HWH-intraces BS-322         0           Number of HWH-intraces BS-324         0           Number of HWH-intraces whereber         0           Supparture protector for INTRACE         0           Supparture protector for INTRACE         0           Supparture protector of INTRACE         0           Supparture protector of INTRACE         0           Supparture protector for	Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces RS-425         0           Number of HW-interfaces RS-435         0           Number of HW-interfaces RS-4117         0           Number of HW-interfaces shariful         0           Number of HW-interfaces with rates         0           Number of HW-interfaces with rates         0           Will supporting promote for WH-interface with rates         0           Will supporting promote for FBDRUS         0           Supporting promote for DULL Highway         0			
Number of HW-interfaces serial TY         0           Number of HW-interfaces parallal         0           Number of HW-interfaces parallal         0           Number of HW-interfaces (HW-interfaces (HW-interfaces)         0           Number of HW-interfaces (HW-interfaces)         0           Number of HW-interfaces (HW-interfaces)         0           Supporting protect for TCPUP         0           Supporting protect for TCPUP         0           Supporting protect for FWRFBUS         0           Supporting protect for FWRFBUS         0           Supporting protect for KWS         0           Supporting protect for KWS         0           Supporting protect for MWDGUIS         0           Supporting protect for FWRFBUS         0           Supporting protect for Exhibitions         0           Supporting protect for FWRFBUS         0           Supporting protect for Exhibitions         0           Supporting protect for Exhibitions         0           Supporting protect for Exhibitions         0           Supporting protect for FWRFBUS         0           Supporting protect for FWRFBUS         0           Supporting protect for Exhibitions Strept         0           Supporting protect for Exhibitions Strept         0			
Number of HW-interfaces paralal?         0           Number of HW-interfaces paralal?         0           Number of HW-interfaces Weekers         0           Number of HW-interfaces Weekers         1           With opical interface         0           Supporting protect for TCHP         0           Supporting protect for TCHP         0           Supporting protect for CLN         0           Supporting protect for MTRENS         0           Supporting protect for ASI         0           Supporting protect for MDRISS         0			
Number of HW-interfaces Writeria         0           Number of HW-interfaces Writeria         1           With optical interfaces         1           With optical interfaces         6           Supporting protect for TCP/IP         6           Supporting protect for TCP/IP         6           Supporting protect for INTERIORS         6           Supporting protect for Interior Interiors         6           Supporting protect for Interiors         6	Number of HW-interfaces RS-485		0
Number of HW-interfaces Wireless   Windersof HW-interfaces with Particular (1997)   1998	Number of HW-interfaces serial TTY		0
Numbur of INW-interfaces abutour         1         Name (American Interface)         80           Supporting pretaced for FTQPP         No         No         No           Supporting pretaced for EAN         No         No         No           Supporting pretaced for MERBUS         No         No         No           Supporting pretaced for MERBUS         No         No         No           Supporting pretaced for MOSUS         No         No         No           Supporting pretaced for MOSUS         No         No         No           Supporting pretaced for Device Me         No         No         No           Supporting pretaced for MERBUS         No         No         No           Supporting pretaced for PROFINET CBA         No         No         No           Supporting pretaced for FARTHUS         No         No         No           Supporting pretaced for FARTHUS Safety at Work         No         No         No           Supporting pretaced for SafetySUS S         No	Number of HW-interfaces parallel		0
With optical interface         No           Supporting protocol for TCPIPP         No           Supporting protocol for TCPIPP         No           Supporting protocol for AN         Pea           Supporting protocol for NATEBUS         No           Supporting protocol for NATEBUS         No           Supporting protocol for MOS         No           Supporting protocol for Data + Highway         No           Supporting protocol for Data SHIPWAY         No           Supporting protocol for DAS         No           Supporting protocol for PSONETC         No           Supporting protocol for PROTOCOL         No           Supporting protocol for	Number of HW-interfaces Wireless		0
Supporting protector for PROPRIES         Image: Company protector for MCRIBUS         Image: Company protector	Number of HW-interfaces other		1
Supporting protocol for PROFIBUS         Ne           Supporting protocol for CAN         ***           Supporting protocol for MISTBUS         No           Supporting protocol for ASIS         No           Supporting protocol for KNDSUS         No           Supporting protocol for KNDSUS         No           Supporting protocol for MODBUS         No           Supporting protocol for DenceNet         No           Supporting protocol for DenceNet         No           Supporting protocol for SUONET         No           Supporting protocol for SUONET         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Finding Salety         No           Supporting protocol for PROFICE         No           S	With optical interface		No
Supporting protocol for CNAN         Yes           Supporting protocol for NTREBUS         No           Supporting protocol for KNX         No           Supporting protocol for KNX         No           Supporting protocol for KNX         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 FORFIRET DA         No           Supporting protocol for FORFIRET DBA         No           Supporting protocol fo	Supporting protocol for TCP/IP		No
Supporting protactor for INTERBUS         No           Supporting protactor for ASI         No           Supporting protactor for MOBUS         No           Supporting protact for Data-Highway         No           Supporting protact of to Data-Highway         No           Supporting protact of to SUCONET         No           Supporting protact of to SUCONET         No           Supporting protact of to SUCONET         No           Supporting protact for SUCONET         No           Supporting protact for SUCONET         No           Supporting protact for SUCONET         No           Supporting protact of FRERENET IG         No           Supporting protact of Frerenet IR FRERENET IG         No           Read sata	Supporting protocol for PROFIBUS		No
Supporting protocol for XSIX         No           Supporting protocol for MDDBUS         No           Supporting protocol for MDDBUS         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUDNET         No           Supporting protocol for PDRINET IO         No           Supporting protocol for PDRINET GA         No           Supporting protocol for PDRINET CBA         No           Supporting protocol for PDRINET GBA         No           Supporting protocol for NETEBUS-Safety         No           Supporting protocol for NETEBUS-Safety         No           Supporting protocol for SafetyBUS Safety         No           Radio standard WLAN 882.11         No           Radio standard GBM	Supporting protocol for CAN		Yes
Supporting protect for MDRUSUS         No           Supporting protect for MDRUSUR         No           Supporting protect for Data-Highway         No           Supporting protect for Device.Net         No           Supporting protect for Edwice.Net         No           Supporting protect for SUCONET         No           Supporting protect for FURPORTED         No           Supporting protect for PDRINET CBA         No           Supporting protect for FSEROS         No           Supporting protect for FEROFIXET CBA         No           Supporting protect for FEROFIXET CBA         No           Supporting protect for FEROFIXET CBA         No           Supporting protect for FSEROS         No           Supporting protect for FEROFIXET CBA         No           Supporting protect for Supporting protect for JUTE CBA         No           Supporting protect for Supporting Supporting protect for Supporting S	Supporting protocol for INTERBUS		No
Supporting protocol for Data-Highway         K         No           Supporting protocol for Data-Highway         K         No           Supporting protocol for Data-Highway         K         No           Supporting protocol for SUCONET         No         No           Supporting protocol for PROFINET IO         No         No           Supporting protocol for PROFINET EDA         No         No           Supporting protocol for FEMBANET EBA         No         No           Supporting protocol for PEMBANET EBA         No         No           Radio standard BABESAS EBA         No         No           Radio standard BABESAS EBA         No         No           Radio standard GBA	Supporting protocol for ASI		No
Supporting protocol for Data-Highway         Mo           Supporting protocol for Devokable         Mo           Supporting protocol for SUCONET         Mo           Supporting protocol for DNGINET IO         Mo           Supporting protocol for PROFINET IO         Mo           Supporting protocol for PROFINET CBA         Mo           Supporting protocol for PROFINET GBA         Mo           Supporting protocol for Fundation Fieldbus         Mo           Supporting protocol for Poweldock Fafety         Mo           Supporting protocol for Poweldock Fafety         Mo           Supporting protocol for POWISTAG         Mo           Supporting protocol for Poweldocol for Poweldocol for Poweldocol for Poweldocol for Poweldocol for Poweldocol for More Data Systems         Mo           Supporting protocol for Other bus systems         Mo           Radio standard Bluetooth         Mo           Radio standard WLAN 802.11         Mo           Radio standard WLAN 802.11         Mo           System accessory         Yes <t< td=""><td>Supporting protocol for KNX</td><td></td><td>No</td></t<>	Supporting protocol for KNX		No
Supporting protect for DeviceNet         ( )         No           Supporting protect for SUCNTET         No         No           Supporting protect for DEVICENTETO         No         No           Supporting protect for PROFINET GBA         No         No           Supporting protect for PROFINET CBA         No         No           Supporting protect for Foundation Fieldbus         No         No           Supporting protect for Ethen Net/Pl         No         No           Supporting protect for SelfeyBUS         No         No           Supporting protect for INTERBUS Safety         No         No           Supporting protect for SelfeyBUS Safety         No         No           Supporting protect for SelfeyBUS Safety         No         No           Radio standard Blustooth         No         No           Radio standard Blustooth         No         No           Radio standard GPSS         No         No           Radio standard GPSS         Y	Supporting protocol for MODBUS		No
Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET ICA         No           Supporting protocol for PROFINET ICA         No           Supporting protocol for SERCOS         No           Supporting protocol for EERCOS         No           Supporting protocol for EERCOR         No           Supporting protocol for EERCOR         No           Supporting protocol for EARCHMEUP         No           Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for PoviceNat 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 Supporting protocol for SafetyBUS 9         No           Radio standard GPRS         No           Radio standard GPRS         No           Radio standard GPRS         No           Radio standard GPRS         No           Radio standard UMTS         No           Ol jake mater         No           System acc	Supporting protocol for Data-Highway		No
Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PSECOS         No           Supporting protocol for Condition Fieldbus         No           Supporting protocol for ChemNet/IP         No           Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for other bus systems         Yes           Radio standard WLAN 802.11         No           Radio standard SSM         No           Radio standard GSM         Yes           Radio standard GSM         No           Radio standard GSM         Yes           Radio standard UMTS         Yes           Incedelay at si	Supporting protocol for DeviceNet		No
Supporting protocol for PROFINET IOA Supporting protocol for PROFINET CBA Supporting protocol for FROCINET CBA Supporting protocol for FROCINET CBA Supporting protocol for ERCOS Supporting protocol for ERCOS Supporting protocol for EtherAteVIP Supporting protocol for EtherAteVIP Supporting protocol for EtherAteVIP Supporting protocol for Interface Safety at Work Supporting protocol for InterBBUS-Safety Supporting protocol for InterBBUS-Safety Supporting protocol for InterBBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for PROFISATE Supporting protocol for PROFISATE Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for PROFISATE Supporting protocol for PROFI	Supporting protocol for SUCONET		No
Supporting protocol for PROFINET IOA Supporting protocol for PROFINET CBA Supporting protocol for FROCINET CBA Supporting protocol for FROCINET CBA Supporting protocol for ERCOS Supporting protocol for ERCOS Supporting protocol for EtherAteVIP Supporting protocol for EtherAteVIP Supporting protocol for EtherAteVIP Supporting protocol for Interface Safety at Work Supporting protocol for InterBBUS-Safety Supporting protocol for InterBBUS-Safety Supporting protocol for InterBBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for OBAIEVBUS p Supporting protocol for SafetyBUS p Supporting protocol for PROFISATE Supporting protocol for PROFISATE Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for PROFISATE Supporting protocol for PROFI	Supporting protocol for LON		No
Supporting protocol for PROFINET CBA         No           Supporting protocol for SERCOS         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for DeviceNetS afety at Work         No           Supporting protocol for DeviceNetS afety         No           Supporting protocol for PROFIsafe         No           Supporting protocol for PROFIsafe         No           Supporting protocol for behas systems         Yes           Supporting protocol for other bus systems         Yes           Radio standard Bluetooth         No           Radio standard WLAN 802.11         No           Radio standard UMAN 802.11         No           Radio standard UMTS         No           System accessory         Yes           System accessory         Yes           System accessory         Yes           System accessory         Yes           Supporting protocol for protocolin (IP)         Yes           Time delay at signal exchange         No           Fieldbus connection over separate bus coupler possible         No           Radi mounting/frect unmonting/frect mounting/frect mounting/frect mounting/fre			No
Supporting protocol for SERGOS         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for Device Safety at Work         No           Supporting protocol for Device Safety at Work         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           Radio standard Blustooth         No           Radio standard GPRS         No           Radio standard GPRS         No           Radio standard GPRS         No           Radio standard UMTS         No           10 Ink master         No           System accessory         Yes           Degree of protection (IP)         IP20           Type of electric connection         Yes           Fieldbus connection over separate bus coupler possible         No           Rail mounting possible         No           Rail mounting possible         No           Rail mounting possible         No           Rail mounting possible         No           Rack-assembly possible <td< td=""><td></td><td></td><td>No</td></td<>			No
Supporting protocol for EtherNet/IP Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for AS-Interface Safety at Work Supporting protocol for PewceNet Safety Supporting protocol for PowceNet Safety Supporting protocol for PNFAFBER Supporting protocol for PNFAFBER Supporting protocol for PNFAFBER Supporting protocol for SafetyBUS p			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         Yes           Radio standard Buteoth         No           Radio standard WLAN 802.11         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         IP20           Time delay at signal exchange         IN           Rail mounting possible         Yes           Wall mounting/direct mounting         Yes           Wall mounting/direct mounting         Yes           Value that in jossible         No           Suitable for safety functions         No           States of the protocol for the bus Safety functions         No           Protocol for the bus Safety functions         No			
Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for PROFisafe  Supporting protocol for SafetyBUS p Supporti			
Supporting protocol for DeviceNet Safety 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 GPRS Radio standard GPRS Radio standard GSM Radio standard GSM Radio standard GSM Radio standard GSM Radio standard UMTS IO link master Degree of protection (IP) Type of electric connection Time delay at signal exchange Fieldbus connection over separate bus coupler possible Rail mounting direct mounting Front build in possible Rack-assembly possible Sutable for safety functions Category according to EN 954-1	11 11		
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 GPRS Radio standard GPRS Radio standard GSM Radio standard GSM Radio standard GSM Radio standard UMTS IO link master Degree of protection (IP) System accessory Begree of protection (IP) Type of electric connection Time delay at signal exchange Fieldbus connection over separate bus coupler possible Rail mounting forsible Rail mounting forsible Rail mounting forsible Rail mounting forsible Rail mounting possible Suitable for safety functions Category according to EN 954-1			
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 GSM Radio standard UMTS Rodio standard UMTS Rod	,		
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 Rodio standard UM			
Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  Radio standard GPRS  Radio standard GSM  Radio standard UMTS  Rodio standard UMT			
Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard UMTS Rodio			
Radio standard WLAN 802.11 Radio standard GPRS Radio standard GSM Radio standard UMTS Radio standard UMTS No Radio standard UMTS No System accessory Yes Degree of protection (IP) Type of electric connection Time delay at signal exchange Fieldbus connection over separate bus coupler possible Rail mounting possible Wall mounting/direct mounting Front build in possible No Rack-assembly possible No Suitable for safety functions Category according to EN 954-1			
Radio standard GPRS Radio standard GSM Radio standard UMTS Rodio standard GSM			
Radio standard GSM Radio standard UMTS No  No  U link master No  System accessory Pes  Degree of protection (IP) Type of electric connection Time delay at signal exchange Fieldbus connection over separate bus coupler possible Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible No  Category according to EN 954-1			
Radio standard UMTS  10 link master  No System accessory  Degree of protection (IP)  Type of electric connection  Time delay at signal exchange Fieldbus connection over separate bus coupler possible Rail mounting possible  Wall mounting/direct mounting Front build in possible  Rack-assembly possible  Suitable for safety functions  Category according to EN 954-1			
IO link master System accessory Pes Degree of protection (IP) IP20 Type of electric connection Time delay at signal exchange ms 0 - 5 Fieldbus connection over separate bus coupler possible Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible No Rack-assembly possible No Suitable for safety functions Category according to EN 954-1			
System accessory  Degree of protection (IP)  Type of electric connection  Time delay at signal exchange  Fieldbus connection over separate bus coupler possible  Rail mounting possible  Wall mounting/direct mounting  Front build in possible  Rack-assembly possible  Suitable for safety functions  Category according to EN 954-1			
Degree of protection (IP)  Type of electric connection  Time delay at signal exchange  Fieldbus connection over separate bus coupler possible  Rail mounting possible  Wall mounting/direct mounting  Front build in possible  Rack-assembly possible  Suitable for safety functions  Category according to EN 954-1			
Type of electric connection  Time delay at signal exchange  ms 0 - 5  Fieldbus connection over separate bus coupler possible  Rail mounting possible  Wall mounting/direct mounting  Front build in possible  Rack-assembly possible  Suitable for safety functions  Category according to EN 954-1  Screw-/spring clamp connection  No  No  No  No  No  No  No  No  No			
Time delay at signal exchange ms 0 - 5 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			
Fieldbus connection over separate bus coupler possible  Rail mounting possible  Wall mounting/direct mounting  No  Front build in possible  No  Rack-assembly possible  No  Suitable for safety functions  Category according to EN 954-1		me	
Rail mounting possible  Wall mounting/direct mounting  No  Front build in possible  Rack-assembly possible  No  Suitable for safety functions  Category according to EN 954-1		IIIS	
Wall mounting/direct mounting  Front build in possible  Rack-assembly possible  No  Suitable for safety functions  Category according to EN 954-1			
Front build in possible Rack-assembly possible No Suitable for safety functions Category according to EN 954-1			
Rack-assembly possible  No Suitable for safety functions  No Category according to EN 954-1			
Suitable for safety functions No Category according to EN 954-1			
Category according to EN 954-1			
			INU
			Nana
	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	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