

Digital output module XI/ON, 24 V DC, 2DO(relays), N/C

Part no. XN-2D0-R-NC Article no. 140061



Delivery program

Function	XI/ON I/O modules
Function	XN Slice module
Short Description	2 NC 230 V AC / 30 V DC
For use with	XN-S4T-SBBS XN-S4S-SBBS XN-S4T-SBCS XN-S4S-SBCS

Technical data

General			
Standards			EN 61000-6-2 EN 61000-6-4 EN 61131-2
Potential isolation			Yes, through optocoupler
Ambient temperature			
Ambient temperature, operation		°C	0 - +55
Storage, transport	8	°C	-25 - +85
Relative humidity			
Relative humidity			5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C)
Ambient conditions, mechanical			
Degree of Protection			IP20
Harmful gases		ppm	SO ₂ : 10 (rel. humidity < 75%, no condensation) H ₂ S: 1.0 (rel. humidity < 75 %,no condensation)
Vibration resistance, operating conditions			according to IEC/EN 60068-2-6
Mechanical shock resistance		g	according to IEC 60068-2-27
Continuous shock resistance (IEC/EN 60068-2-29)			According to IEC 60068-2-29
Drop and topple			According to IEC 60068-2-31, free fall according to IEC 60068-2-32
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	EN 61100-4-2
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	EN 61100-4-2
Burst			EN 61100-4-4
Surge			EN 61100-4-5
Radiated RFI		V	EN 61100-4-6
Emitted interference (radiated, high frequency)	(30230 MHz) / (2301000 MHz)	dB	EN 55016-2-3
Voltage fluctuations/voltage dips			EN 61131-2
Type test			to EN 61131-2
Approvals			CE, cULus
Other technical data (sheet catalogue)			Technical Data
Analog input modules			
Rated voltage through supply terminal	U_L		24 V DC

Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Connectable sensors			Resistive loads Inductive loads Lamp loads
Base modules			
without C connection			4-wire XN-S4x-SBBS
Analog output modules			AIV-04A-0BB0
Rated voltage through supply terminal	U_{L}		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Base modules			
without C connection			4-wire
Digital outputs			XN-S4x-SBBS
Rated voltage through supply terminal	U_{L}		24 V DC
Rated current consumption from the supply terminal (at load current = 0 mA)	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Power loss	P	W	Normally 1
Can be connected			Resistive loads
			Inductive loads Lamp loads
Base modules			
with C connection			4-wire
Digital inputs			XN-S4x-SBCS
Rated voltage through supply terminal	U_{L}		24 V DC
Rated current consumption from supply terminal	IL	mA	20
Rated current consumption from module bus	I _{MB}	mA	≤ ₂₈
Rated insulation voltage	Ui	V AC	1780
Base modules			
without C connection			4-wire
with C connection			XN-S4x-SBBS
With C connection			4-wire XN-S4x-SBCS
Relay modules			
Contact type art	11		2 break contacts
Rated voltage through supply terminal Rated current consumption from supply terminal	U _L	mA	24 V DC 20
Rated current consumption from module bus	l _L	mA	
	I _{MB}		≦ ₂₈
Rated insulation voltage	Ui	V AC	1500, 500
Power loss	P	W	Normally 1
Can be connected			Resistive loads Inductive loads Lamp loads
Rated load voltage			230 V AC, 30 V DC
Output current per channel/230 V AC		^	2000
Maximum continuous current Maximum continuous current, resistive load		mA	2000 5 A
Minimum load current Minimum load current		mA	100 mA at 12 V DC
Utilization factor	g	%	100
Lifespan at 230 V AC		Switchin	
at 5 A	Operations	operation	0.1
at 0.5 A	Operations	x 10 ⁶	1
Base modules	Operations	x 10 ⁶	
without C connection			4-wire

			XN-S4x-SBBS	
with C connection			4-wire XN-S4x-SBCS	
Power supply module				
Rated voltage through supply terminal	U_L		24 V DC	
Rated current consumption from supply terminal	IL	mA	20	
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈	
Power loss	P	W	1	
Counter module				
Rated voltage through supply terminal	U_{L}		24 V DC	
Rated current consumption from supply terminal	IL	mA	20	
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈	
Interfaces				
Rated voltage through supply terminal	U_{L}		24 V DC	
Rated current consumption from supply terminal	IL	mA	20	
Rated current consumption from module bus	I _{MB}	mA	≦ ₂₈	
Power loss	P	W	Normally 1	

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	1
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 6.0

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

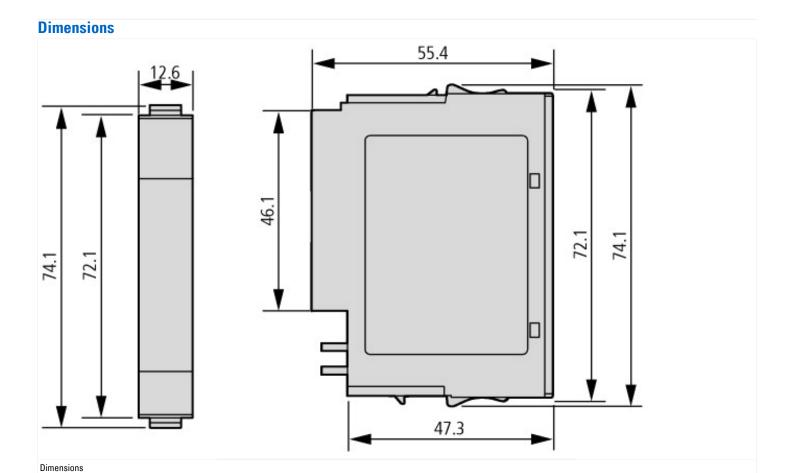
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss8.1-27-24-26-04 [BAA055011])

Supply on basing AC BOTA ([BAA055011])		
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Permittat voltage injunt voltage (Part voltage)	Digital outputs configurable		No
Type of violages input violages Relay Type of dipal actiquet A 5 Permitted violage at output V 0.260 Type of durpt violages ACDC Number of HW interfaces industrial Enternet 0 Number of HW interfaces RPORNET 0 Number of HW interfaces Writings 0 <td>Input current at signal 1</td> <td>mA</td> <td>0</td>	Input current at signal 1	mA	0
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Permitted voltage at output V 0 - 250	Type of digital output		Relay
Type of output veltage ACIDIC Silvar-circul protection, autputs a variable No Number of HVM-inferfaces industrial Element 0 Number of HVM-inferfaces IPS-EVE 0 Number of HVM-inferfaces PR-EVE 0 Number of HVM-inferfaces were interes 0 Number of HVM-inferfaces were interes 0 Number of HVM-inferfaces were interes 0 Supporting protect of the PROFIBUS No Supporting protect of the PROFIBUS Yes Supporting protect of the PROFIBUS No Supporting protect of the PROFIBUS No Supporting protect of the PROFIBUS No Supporting protect for PROFIBUS	Output current	Α	5
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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 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 Radio standard Bluetooth Radio standard GPRS No No No	Supporting protocol for PROFINET CBA		No
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Supporting protocol for AS-Interface Safety at Work 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 Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No			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 Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No No No	Supporting protocol for EtherNet/IP		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 Radio standard WLAN 802.11 Radio standard GPRS No No	Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No No			No
Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No No			
Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS No No			
Radio standard Bluetooth Radio standard WLAN 802.11 No Radio standard GPRS No			
Radio standard WLAN 802.11 No Radio standard GPRS No			
Radio standard GPRS No			
Radio standard GSM No			
	RAGIO STANDARD GOM		NO

Radio standard UMTS			No
IO link master			No
System accessory			Yes
Degree of protection (IP)			IP20
Type of electric connection			Plug-in connection
Time delay at signal exchange	1	ms	0 - 0
Fieldbus connection over separate bus coupler possible			Yes
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. 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
Width		mm	12.6
Height	1	mm	74.1
Depth	1	mm	55.4

Approvals

Approvais	
Product Standards	UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
UL File No.	E205091
UL Category Control No.	NRAQ, NRAQ7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	2252-01, 2252-81
North America Certification	UL recognized, certified by UL for use in Canada
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP20, UL/CSA Type: -



Additional product information (links)

MN05002010Z Manual Digital XI/ON modules, power supply modules						
MN05002010Z Handbuch Digitale XI/ON- Module Versorgungsmodule - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002010Z_DE.pdf					
MN05002010Z Manual Digital XI/ON modules, power supply modules - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002010Z_EN.pdf					
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111					