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Digital output module XI/ON, 24 V DC, 2DO(relays), changeover contact

Powering Business Worldwide*

Part no. XN-2D0-R-C0 Article no. 140054

Delivery program

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

Technical data

General

Uclicial			
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	9	°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

Description is processed processed places Personal Pro	Rated current consumption from module bus	I _{MB}	mA	<
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Autionation Part	Connectable sensors			Inductive loads
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Rated comment consumption from module bus Myr. FMA ≤ 20 Digital contractions 52 × 50 × 50 × 50 × 50 × 50 × 50 × 50 ×			mΛ	
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Part	without C connection			
Nated cournet consumption from the supply terminal (at lead current = 0 mA) 1, mA 20 Relate current consumption from module bus P W Normally 1 Can be connected U W Normally 1 Relate during conditions with supply terminal U 4 2 Relate current consumption from supply terminal U 2 4 20 Relate current consumption from module bus U 2 4 20 Relate current consumption from module bus U 4 4 20 Relate current consumption from module bus U 4 4 20 Relate current consumption from module bus U 4 4 20 Relate current consumption from module bus U 0 2 2 2 Relate current consumption from module bus U 0 0 0	Digital outputs			
Rated current consumption from module bus Idea ITAL Semissible loads included bus Digital inputs Semissible loads included bus		U_{L}		24 V DC
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Can be connected Secretary injusts Resistive loads inductive loads	Power loss	D	W	
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Politati inputs Rated outputs principh supply terminal UL x4 VDC Rated current consumption from supply terminal low 22 Rated insulation voltage Up XAC 780 Base modules VI VIIII	can be connected			Inductive loads
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Rated current consumption from module bus		Uı		24 V DC
Rated current consumption from module bus Name			mΛ	
Rated insulation voltage Up V C 29 Base modules 4-wine 4-wine without C connection 4-wine 4-wine Relay modules V 4-wine Contact type art 5- 0 2 knongeover contact Rated dusge through supply terminal Ui 24 V D C Rated current consumption from supply terminal Max 22 Rated current consumption from module bus Max 100 500 Rated current consumption from module bus Pu V 100 500 Rated current consumption from module bus Pu V Mornally 1 Can be connected Pu V Normally 1 Can be connected Pu V Normally 1 Can be connected Pu V Normally 1 Maximum continuous current Pu V No Normally 1 Maximum continuous current Pu No 100 Pu No No No Miliamium load current Pu No 100 Pu No 100 Pu				
Base modules without C connection Relation of Connec	nated current consumption from module bus	·MВ	IIIA	≥ 28
without C connection Law in Sky SBBS Relay modules Contact type art Sector Strong Supply terminal UL 24 V DC Rated outrent consumption from supply terminal Ik mA 20 Rated current consumption from module bus Image: MBB MB AC 22 g Rated current consumption from module bus Image: MBB MB AC 25 g Rated current consumption from module bus Image: MBB MB AC 25 g Rated current consumption from module bus Image: MBB MB AC 25 g Rated current consumption from module bus Image: MBB MB	Rated insulation voltage	Ui	V AC	1780
Relay modules Contact type art 2 2 Changever contact Rated voltage through supply terminal Ut 34 V C Rated current consumption from supply terminal In mA 20 Rated current consumption from module bus In VAC 500,500 Rated insulation voltage Uj VAC 500,500 Power loss P W Normally 1 Can be connected P W Normally 1 Rated load voltage P W Normally 1 Output current per channel/230 V AC MAX 200 V AC, 30 V DC Maximum continuous current MAX 200 Maximum continuous current, resistive load MAX 100 Ac at 12 V DC Utilization factor P % 10 Ac at 12 V DC Utilization factor P % 10 Ac at 12 V DC at 5 A P Ye 4 Wire Accases at 0.5 A P Ye 4 Wire Accases without C connection Ye 4 Wire Accases Power	Base modules			
Relay modules Contact type art Rated voltage through supply terminal Rated current consumption from supply terminal Rated current consumption from supply terminal Rated current consumption from supply terminal Rated insulation voltage Rouer loss Rouer	without C connection			
Contact type art Changeover contact Rated voltage through supply terminal UL > 24 V DC Rated current consumption from supply terminal IL mA 20 Rated current consumption from module bus IMB mA 22 Rated insulation voltage Uj VAC 1500,500 Power loss P W Normally 1 Can be connected P W Normally 1 Can be connected P W Normally 1 Maximum continuous current P W 200 Maximum continuous current P W 200 Minimum load current P W 100 Utilization factor P W 100 Lifespan at 230 V AC P 100 100 Lifespan at 230 V AC P 100 100 Without C connection P 100 100 Base modules W 100 100 100 Without C connection W 100 100	Relay modules			All CIA CODE
Rated current consumption from supply terminal Rated current consumption from module bus In Max				2 Changeover contact
Rated current consumption from module bus Mas mA 2 28 Rated insulation voltage Ui VAC 1500, 500 Power loss P W Resistive loads Inductive loads Lamp loads Rated load voltage Output current per channel/230 V AC Maximum continuous current Maximum continuous current Maximum continuous current, resistive load Minimum load current Utilization factor If span at 230 V AC Operations at 5 A Operations virbout C connection without C connection Vire Rated voltage through supply terminal Rated current consumption from module bus Image: Power supply module Rated current consumption from supply terminal Vi Ui, VAC 1500, 500 100 100 100 100 100 100 100	Rated voltage through supply terminal	UL		24 V DC
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Rated insulation voltage Power loss P W Normally 1 Resistive loads Inductive loads Inductiv	Rated current consumption from module bus	I _{MB}	mA	≦ 28
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Maximum continuous current, resistive load Minimum load current Utilization factor Ifespan at 230 V AC Operations at 5 A Operations at 0.5 A Base modules without C connection Power supply module Rated voltage through supply terminal IL Maximum continuous current, resistive load mA 100 mA at 12 V DC Switching operations val6 0.1 1 4 wire xN-S4x-SBBS Power supply module Rated current consumption from supply terminal IL mA 20	Power loss Can be connected	P	W	Normally 1 Resistive loads Inductive loads Lamp loads
Minimum load current Utilization factor g % 100 Switching operations at 5 A Operations x 106 Operations x 106 It A Operations without C connection Power supply module Rated voltage through supply terminal UL Rated current consumption from supply terminal mA 100 mA at 12 V DC No mA 100 Aut 12 V DC Switching operations x 106 0.1 1 4-wire XN-S4x-SBBS Power supply module Rated current consumption from supply terminal UL Aut 12 V DC Aut 12 V DC	Power loss Can be connected Rated load voltage	P	W	Normally 1 Resistive loads Inductive loads Lamp loads
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Power supply module Rated voltage through supply terminal UL 24 V DC Rated current consumption from supply terminal IL mA 20	Power loss Can be connected Rated load voltage Output current per channel/230 V AC Maximum continuous current Maximum continuous current, resistive load Minimum load current Utilization factor Lifespan at 230 V AC at 5 A at 0.5 A	g Operations	mA % Switching operation x 10 ⁶	Normally 1 Resistive loads Inductive loads Lamp loads 230 V AC, 30 V DC 2000 5 A 100 mA at 12 V DC 100 9 Is 0.1
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	Power loss Can be connected Rated load voltage Output current per channel/230 V AC Maximum continuous current Maximum continuous current, resistive load Minimum load current Utilization factor Lifespan at 230 V AC at 5 A at 0.5 A Base modules without C connection Power supply module	g Operations Operations	mA % Switching operation x 10 ⁶	Normally 1 Resistive loads Inductive loads Lamp loads 230 V AC, 30 V DC 2000 5 A 100 mA at 12 V DC 100 9 1s 0.1 1 4-wire XN-S4x-SBBS
™D = 28	Power loss Can be connected Rated load voltage Output current per channel/230 V AC Maximum continuous current Maximum load current Utilization factor Lifespan at 230 V AC at 5 A at 0.5 A Base modules without C connection Power supply module Rated voltage through supply terminal	g Operations Operations	mA % Switching operation x 10 ⁶ x 10 ⁶	Normally 1 Resistive loads Inductive loads Lamp loads 230 V AC, 30 V DC 2000 5 A 100 mA at 12 V DC 100 9 Is 0.1 1 4-wire XN-S4x-SBBS
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Power loss	Р	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

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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)
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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])

15.4.0000111/		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30

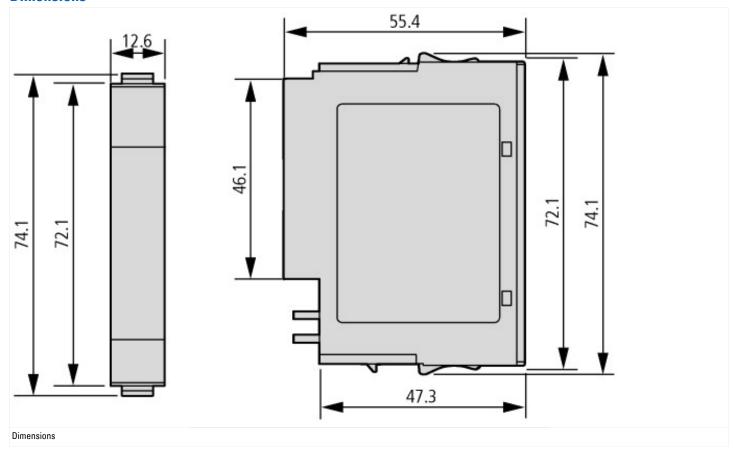
Voltage type of supply voltage		DC
Number of digital inputs		0
Number of digital outputs		2
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	0
Permitted voltage at input	V	0 - 0
Type of voltage (input voltage)		AC/DC
Type of digital output		Relay
Output current	Α	5
Permitted voltage at output	V	0 - 0
Type of output voltage		AC/DC
Short-circuit protection, outputs available		No
Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
With optical interface		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		Yes
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		Yes
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		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 Nationale 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
Degree of protection (IP)		IP20
Type of electric connection		Plug-in connection
Time delay at signal exchange	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	mm	74.1
Depth	mm	55.4

Approvals

PP 5 5 5	
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: -

Dimensions



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