## DATASHEET - XN-32D0-24VDC-0.5A-P



## Digital output block module XI/ON, 24 V DC, 32DO, 0.5A, pulse-switching



Part no. Catalog No. XN-32D0-24VDC-0.5A-P

140161

EL-Nummer (Norway)

0004560838

## **Delivery program**

Function	XI/ON I/O modules
Function	XN Block module
Short Description	32 Digital output, 24 V DC/0.5 A Positive switching
For use with	XN-B6T-SBCSBC XN-B6S-SBCSBC

# 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	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) $H_2S$ : 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 61000-4-2
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			
Channels		Number	32

Analog input modules			
Channels		Number	32
Rated voltage through supply terminal	$U_L$		24 V DC
Rated current consumption from supply terminal	IL	mA	30
Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
Connectable sensors			Resistive loads Inductive loads Lamp loads
Diagnostics			8

Number of Commons				
	Diagnostics			Yes
Rand corren consumption from spalp forminal   1				
Read current consumption from except   bommand   bus   bu			Number	
Read current consumption from module loss		UL		
Lead resistance  Pearathy Local Companies  The influence of Local Companies  Section changes from pile supply remined (are lood current = 0 mA) Mumber 32  Related current concentroin from the supply remined (are lood current = 0 mA) May 32  Related current concentroin from module base	Rated current consumption from supply terminal	IL	mA	30
Residue load	Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
Political outputs	Load resistance			
Digital outputs         Very 12 Comments         Very 12 Comments </td <td>Resistive load</td> <td></td> <td>Ω</td> <td>≧ 48</td>	Resistive load		Ω	≧ 48
Number of commence   Number	Inductive load		h	1.2
Reside current consumption from the supply terminal (at least current – 0 mA)   1 mA	Digital outputs			
Reside current consumption from this supply traininal lat lead current — 0 mAy   1 max   20     Power loss			Number	
Read currant consumption from module bus	Rated voltage through supply terminal	UL		24 V DC
Prove less         P         W         Montably 5           Output current         Uv/Qu         > U-1 V D C           High herel Iread value)         Ign         0 8.4           High herel Iparmisation range)         Ign         0 8.4           Multiple Intell purmisation rangel         Ign         0 9.0           Multiple Intell purmisation rangel         Ign         0 10.0           Unity or Signal change and resistive load         Ign         3 30.0           From High to Low signal         Ign         3 30.0           From High to Low signal         Ign         3 30.0           Lond resistance range         Ign         3 80.0           Unitariate Standard         Ign         3 80.0           Intelligation Score         Ign         3 80.0           Intelligation Score         Ign         3 80.0           Resistive load         Ign         3 80.0           Intelligation Score         Ign         3 80.0           Resistive Read         Ign         4 80.0           Resistive Read         Ign         4 80.0           With resistive Read         Ign         4 80.0           Number of diagnostic Lytes         Ign         4 80.0           Resistive Read for stort	Rated current consumption from the supply terminal (at load current = 0 mA)	IL	mA	30
Output voltage         Hy HVA         Vol. 1V DC           injo freedress         4         Vol. 1V DC           injo freedress wheely on signal for angel         Injo         A         1D           Number of outputs switched in parallel         max         2         2           Delay on signal change and resistive load         js         30         30           From High to east ginal         js         30         30           Load resistance range         js         30         30           Load resistance range         js         30         30           Load resistance range         js         30         Min. 10 A total module current)           Can be connected         js         ja         Min. 10 A total module current)           Resistance range         js         ja         Min. 10 A total module current)           Resistance range         js         ja         Min. 10 A total module current)           Resistance load         js         ja         Min. 10 A total module current)           Resistance load         js         js         js         js           Resistance load         js         js         js         js         js         js         js         js         js	Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
High level         Uy Uy         X         Up Cannot Control           Bigh level (rated value)         N₁         A         2.5 A           High level (rated value)         N₁         A         2.1 C           Number of outputs switched in parallel         max         Y         2           Module to all current         Bay         X         2           High level (a way switched in parallel         W         Y         2           Beyon singula Latage and resistive load         y         y         300           From High to Low signal         W         40         1           Load resistance range         y         y         40           Ublication factor         Y         y         40           Can be connected         Y         y         2           Inductive load         Y         y         2           Inductive load         Y         y         2           Inductive load         Y         y         2           Number of diagnostic bytes         y         Y         2           Base after short-ricult rectified         y         Y         X           Base after short-ricult rectified         y         X         X	Power loss	P	W	Normally 5
Output current         A           High level (lared value)         JH         0.5 A           High level (parmisable range)         JII         A         < 1.3           Number of outputs switched in parallel         max.         2           Module testal current         A         10           Uellay on signal change and resistive load         JB         300           From High te Low signal         JB         300           Load resistance range         JB         300           Load resistance range         JB         40 ID           Usual parallel         JB         300           Can be connected         JB         AWA 10 Intral module current!           Class be connected         JB         AWA 10 Intral module current!           Class be connected         JB         Resistive Index to Value Interveloped.           Class be connected         JB         Resistive Index to Value Interveloped.           Resistive Index to Value Connected         JB         LB         100 (Mg < 1 ki)           With resistive Index to Value Connected         JB         LB         100 (Mg < 1 ki)           Number of diagnostic Dytes         JB         Resistive Index to Connected         Resistive Index to Connected         Resistive Index to Connected <td>Output voltage</td> <td></td> <td></td> <td></td>	Output voltage			
High level (rested value)	High level	$U_{H'}U_{A}$		> U <sub>L</sub> - 1 V DC
High level (permissible range)	Output current		Α	
Number of diagnate witched in parallel   Module total current of outputs switched in parallel   Module total current of outputs and the parallel   Module total current of outputs and the parallel   Module total current of outputs and the parallel   Module total current of outputs on signal change and resistive load   From Low to High level	High level (rated value)	I <sub>H</sub>		0.5 A
Number of outquits writched in parallel         max         2           Modulate current         A         10           Delay on signal change and resistive load         us         30           From High to Low signal         us         300           Load resistance range         48 0         300           Can be connected         %         48 0           Can be connected         %         48 0           Can be connected         %         48 0           Resistive load         Max         10 A total module current)           Resistive load         Resistive load         Resistive load           Inductive load         Resistive load         Resistive load           With resistive load         Resistive load         Resistive load           With constitute load         Resistive load         Resistive load           Use of Can select         Resistive load         Resistive load           Base modules         Resistive load         Resistive load         Resistive load           Bas	High level (permissible range)		Α	<1.0
Module total current         A         Incompany of the property of t				2
Delay on signal change and resistive load         µs         pool           From High to Lovs signal         µs         300           Load resistance range         48 0         48 0           Utilization factor         %s         qs         Max. 10 A (total module current)           Can be connected         %s         qs         Max. 10 A (total module current)           Can be connected         %s         qs         desirier loads           Resistive load         qs         qs         48           Lamp load         RL         W         a 6           Switching frequency         with consistive load         f         Hz         20           Number of diagnostic bytes         g         100 (RL <sub>0</sub> < 1 M)         400           Biogenesises         yes         400 (RL <sub>0</sub> < 1 M)         400           Outputs to EN 61131-2         yes         400 (RL <sub>0</sub> < 1 M)         400 (RL <sub>0</sub> < 1 M)           Reset after short-circuit rectified         l <sub>1</sub> xi         2         400 (RL <sub>0</sub> < 1 M)           Base modules         yes         24 V DC           Channels         Number of diagnostic promotion         24 V DC           Rated current consumption from supply terminal         l <sub>1</sub> mA         30 <td></td> <td></td> <td>A</td> <td></td>			A	
From Low to High level				
Part   High to Low signal   Load resistance range			us	300
Load resistance range  Uhilization factor  Can be connected  Resistive load  Resistive loads  Res				
Usilization factor Can be connected Can			μο	
Resistive load Resistive loads		%	a	
Resistive load Resist		70	9	
Inductive load         RLL         W         1.2           Lamp load         RLL         W         ≨6           Switching frequency         With resistive load         f         HZ         100 (RLo < 1 kG)	Cuit de connecteu			Inductive loads
Lamp load RLL W Switching frequency  With resistive load f Hz 100 (RL0 < 1 kG)  Number of diagnostic bytes 8 Diagnostics Outputs to EN 61131-2 Outputs to EN 61131-2 With Connection Reset after short-circuit rectified I Automatic Reset and short-circuit proof Reset and short-c	Resistive load		Ω	≧ 48
Switching frequency  With resistive load  Number of diagnostic bytes  Diagnostics  Outputs to EN 61131-2  Reset after short-circuit rectified  Base modules  With Connection  With Connection  Diagnostics  Ves  Automatic	Inductive load		h	1.2
With resistive load  Number of diagnostic bytes  Diagnostics  Outputs to EN 61131-2  Reset after short-circuit rectified  Base modules  with C connection  Digital inputs  Channels  Rated voltage through supply terminal  Rated current consumption from module bus  with C connection  Mab  Rated voltage through supply terminal  Rated current consumption from module bus  With C connection  Mab  Rated voltage through supply terminal  Rated current consumption from module bus  With C connection  With C connection  Mab  Rated current consumption from module bus  With C connection  Wit	Lamp load	$R_{LL}$	W	≦ 6
Number of diagnostic bytes  Diagnostics  Outputs to EN 61131-2  Reset after short-circuit rectified  Base modules  with C connection  Digital inputs  Channels  Rated current consumption from supply terminal  Base modules  with C connection  With C connection  Digital consumption from module bus  with C connection  Retea wordings supply terminal  Rated current consumption from module bus  Make with C connection  Retea wordings who wordings w	Switching frequency			
Diagnostics Outputs to EN 61131-2 Reset after short-circuit rectified Base modules with C connection  Digital inputs  Channels Rated voltage through supply terminal Base modules with C connection  Digital consumption from module bus With C connection  Reteat current consumption from supply terminal Base modules With C connection  Digital consumption  Rated current consumption from module bus With C connection  Digital consumption  Reteat current consumption from module bus With C connection  Reteat current consumption from module bus With C connection  Reteat current consumption from module bus With C connection  Reteat current consumption from module bus With C connection  Reteat current consumption from module bus With C connection  Reteat current consumption from module bus With C connection  Reteat wording supply terminal  Reteat current consumption from supply terminal  Reteat current consumption from module bus  Reteat wording supply terminal  Reteat current consumption from module bus  Reteat current consumption from module bus  Reteat wording supply terminal  Reteat current consumption from module bus  Reteat current consumption from supply terminal  Reteat current consumption from module from from from from from from from from	With resistive load	f	Hz	$100 (R_{LO} < 1 k\Omega)$
Outputs to EN 61131-2  Reset after short-circuit rectified  Reset after short-circuit proof  Automatic  2-wire/3-wire XN-B6x-SBCSBC  Relay modules  Reset after short-circuit proof  Reset after short-circuit proof  Reset after short-circuit proof  Automatic  2-wire/3-wire XN-B6x-SBCSBC  Relay modules  Reset after short-circuit proof  Automatic  Automatic  2-wire/3-wire XN-B6x-SBCSBC  Relay modules  Reset after short-circuit proof  Automatic  Automatic  2-wire/3-wire XN-B6x-SBCSBC  Relay modules  Reset after short-circuit proof  Automatic  Automatic  2-wire/3-wire XN-B6x-SBCSBC  Relay modules  Reset after short-circuit proof  Automatic  Automa	Number of diagnostic bytes			8
Reset after short-circuit rectified  Base modules with C connection  Digital inputs Channels Rated voltage through supply terminal Rated current consumption from module bus with C connection  Digital inputs  With C connection  I L MA 30  Rated current consumption from module bus With C connection  May MA 50  Rated current consumption from module bus  With C connection  Digital inputs  With C connection  U L WA DC  WA 30  Rated current consumption from module bus  With C connection  W	Diagnostics			Yes
Base modules with C connection with C connection  Digital inputs Channels Rated voltage through supply terminal Rated current consumption from supply terminal Rated current consumption from module bus  Base modules with C connection  Relay modules Rated voltage through supply terminal  UL  Val  Val  Val  Val  Val  Val  Val  Va	Outputs to EN 61131-2			short-circuit proof
with C connection  Digital inputs  Channels  Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Base modules  with C connection  Rated voltage through supply terminal  UL  MB  MB  30  2-wire/3-wire 3-wire 3-wi	Reset after short-circuit rectified	li		Automatic
Digital inputs Channels Subject of the proof of the proo	Base modules			
Channels  Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Rated current consumption from module bus  Base modules  with C connection  Relay modules  Rated voltage through supply terminal  Rated current consumption from module bus  Rated current consumption from module bus  Rated current consumption from module bus  Power loss  Resistive loads				
Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Rated current consumption from module bus  Base modules  with C connection  Relay modules  Rated voltage through supply terminal  Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Rated current consumption from module bus  Rated current consumption from module bus  P  W  Normally 5  Resistive loads	Digital inputs			
Rated current consumption from supply terminal  Rated current consumption from module bus  IMB  Base modules with C connection with C connection  Relay modules  Rated voltage through supply terminal Rated current consumption from supply terminal Rated current consumption from supply terminal Rated current consumption from module bus  IL  MA  30  2-wire/3-wire XN-B6x-SBCSBC  Relay modules  Rated current consumption from supply terminal IL  MA  30  Rated current consumption from module bus  MB  MA  30  Rated current consumption from module bus  Rated current consumption from supply terminal  Rated current consumption from			Number	
Rated current consumption from module bus  Base modules with C connection with C connection  Relay modules  Rated voltage through supply terminal Rated current consumption from supply terminal  Rated current consumption from module bus  Rated current consumption from module bus  Rated current consumption from module bus  Power loss  Can be connected  Rated current connected  Rated current consumption from module bus  Rated current consumption from supply terminal  Rate	Rated voltage through supply terminal	UL		24 V DC
Base modules with C connection  Relay modules Rated voltage through supply terminal Rated current consumption from supply terminal Rated current consumption from module bus Rower loss Power loss Can be connected  Rated current connected  Rated current consumption from module bus Ra	Rated current consumption from supply terminal	IL	mA	30
with C connection  Relay modules  Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Rower loss  Can be connected  Relay modules  2-wire/3-wire XN-B6x-SBCSBC  24 V D C  And 30  No MA  Solution  Normally 5  Resistive loads	Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
Relay modules Rated voltage through supply terminal UL 24 V DC Rated current consumption from supply terminal LB MB MB MB 30 Rower loss Power loss Can be connected VN-BEASE SBCSBC  XN-BEASE-SBCSBC  AN-BEASE-SBCSBC  AN-BEASE-SBC	Base modules			
Relay modules       Rated voltage through supply terminal     UL     24 V DC       Rated current consumption from supply terminal     IL     mA     30       Rated current consumption from module bus     IMB     mA     ≤ 30       Power loss     P     W     Normally 5       Can be connected     Resistive loads	with C connection			
Rated current consumption from supply terminal  Rated current consumption from module bus  IMB  MA	Relay modules			
Rated current consumption from module bus  Power loss  Can be connected  PMB  MA	Rated voltage through supply terminal	$U_{L}$		24 V DC
Power loss P W Normally 5 Can be connected Resistive loads	Rated current consumption from supply terminal	IL	mA	30
Can be connected Resistive loads	Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
Can be connected Resistive loads	Power loss	P	W	Normally 5
	Can be connected			Resistive loads

			Lamp loads
Utilization factor	g	%	100
Base modules			
with C connection			2-wire/3-wire XN-B6x-SBCSBC
Power supply module			
Rated voltage through supply terminal	$U_L$		24 V DC
Rated current consumption from supply terminal	IL	mA	30
Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
Diagnostics			8
Power loss	P	W	5
Counter module			
Channels		Number	32
Rated voltage through supply terminal	$U_{L}$		24 V DC
Rated current consumption from supply terminal	IL	mA	30
Rated current consumption from module bus	$I_{\text{MB}}$	mA	≦ 30
Digital outputs			
Output current		Α	
High level (permissible range)	I <sub>H</sub>	Α	<1.0
High level (rated value)	I <sub>H</sub>		0.5 A
Lamp load	$R_{LL}$	W	<b>≦</b> 6
Short-circuit rating			short-circuit proof
Measuring modes			
Diagnostics			8
Interfaces			
Rated voltage through supply terminal	UL		24 V DC
Rated current consumption from supply terminal	IL	mA	30
Rated current consumption from module bus	I <sub>MB</sub>	mA	≦ 30
Power loss	P	W	Normally 5
Number of diagnostic bytes			8
Notes			

The supply terminal (U<sub>L</sub>) provides power for the module electronics and for the consumers at the outputs. The total current required for each module consists of the sum of all partial

Part of the XI/ON module's electronics is supplied with module bus voltage (5 V DC), the other part through the supply terminal  $(U_L)$ .

To increase the maximum output current to up to 1 A, two outputs can be connected in parallel.

Note for table header The rated current from supply terminal data apply at zero load current. Applies for resistive load: RLO <  $1k\Omega$ 

## 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	$P_{\text{vid}}$	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	5
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 7.0**

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@ss10.0.1-27-24-26-04 [BAA055014])

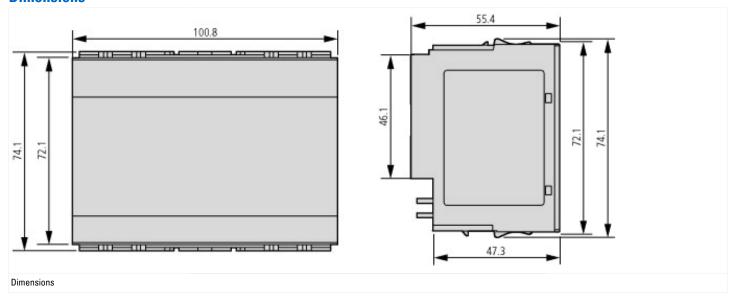
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30
Voltage type of supply voltage		DC
Number of digital inputs		0
Number of digital outputs		32
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	0
Permitted voltage at input	V	0 - 0
Type of voltage (input voltage)		DC
Type of digital output		Other
Output current	Α	0.5
Permitted voltage at output	V	0 - 29
Type of output voltage		DC
Short-circuit protection, outputs available		Yes
Number of HW-interfaces industrial Ethernet		0
Number of 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 USB		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 protect for MODBUS         No           Supporting protect for Deat-Highlawy         No           Supporting protect for Deat-Highlawy         No           Supporting protect for CND         No           Supporting protect for LON         No           Supporting protect for PROPENET CBA         No           Supporting protect for PROPENET CBA         No           Supporting protect for Foundation Fieldbes         No           Supporting prot			
Supporting protact for Data-Highway         Ne           Supporting protact for DeviceMet         Yes           Supporting protact for LON         Ne           Supporting protact for SERODS         Ne           Supporting protact for Formatiston Fieldows         Ne           Supporting protact for Formatiston Fieldows         Ne           Supporting protact for Formatiston Fieldows         Ne           Supporting protact for Powerback Safety         Ne           Supporting protact for Powerback Safety         Ne           Supporting protact for PROFIsation         Ne           Supporting protact for Order the systems         Ne           Ratio standard WLAA WB211         Ne           Ratio standard WLAA WB211         Ne           Ratio standard UMIS         Ne           Rudio standard UMIS         Ne           Into In status         Ne           System accessory         Pug in consection	Supporting protocol for KNX		No
Supporting protocol for SUCONET  No Supporting protocol for SUCONET  No Supporting protocol for PROFINET IO  No Supporting protocol for SEROS  Supporting protocol for SEROS  Supporting protocol for Etherket/P  No Supporting protocol for Etherket/P  No Supporting protocol for Etherket/P  No Supporting protocol for DeviceNet/Safety at Work  Supporting protocol for DeviceNet/Safety  No Supporting protocol for Safety  No Supporting protocol for S	Supporting protocol for MODBUS		No
Supporting protocol for SUCONET Supporting protocol for EDRONET IO Supporting protocol for PROPINET IO Supporting protocol for PROPINET IO Supporting protocol for PROPINET IOBA Supporting protocol for PROPINET IOBA Supporting protocol for SERCOS Supporting protocol for EDRONES Supporting protocol for SINTERBUSS Supporting proto	Supporting protocol for Data-Highway		No
Supporting protect for LDN         No           Supporting protect for PROFINET ID         No           Supporting protect for PROFINET CBA         No           Supporting protect for ERECOS         No           Supporting protect for Endediation Fieldbus         No           Supporting protect for Endediation Fieldbus         No           Supporting protect for Enders a Safety at Work         No           Supporting protect for Enders Safety         No           Supporting protect for In IntERBUS-Safety         No           Supporting protect for Enders Safety         No           Supporting protect for for In IntERBUS-Safety         No           Supporting protect for Enders systems         No           Supporting protect for other two systems         No           Radio standard WIAN 802.1         No           Radio standard WIAN	Supporting protocol for DeviceNet		Yes
Supporting protector for PROFINET IO         No           Supporting protector for PROFINET CEAA         No           Supporting protector for FROMENT CEAA         No           Supporting protector for EmenNexIPE         No           Supporting protector for EmenNexIPE         No           Supporting protector for EmenNexIPE         No           Supporting protector for PROFINETA         No           Supporting protector for Certification         No           Radio standard SULATS         No           Ra	Supporting protocol for SUCONET		No
Supporting protocol for PROFINET CBA         No           Supporting protocol for SEROS         No           Supporting protocol for SEROS         No           Supporting protocol for Chandation Fieldbus         No           Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for Province Safety at Work         No           Supporting protocol for PROFISATION         No           Supporting protocol for PROFISATION         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for Cather bus systems         No           Radio standard WIAN 82211         No           Radio standard WIAN 82211         No           Radio standard SSM         No           Radio standard SSM         No           Radio standard SSM         No           System accessory         No           Degree of protocolin (IP)         Yes           System accessory         Pug-in connection           Time delay at signal exchange         No           Wall mounting possible         No           Rull mounting possible         No           Rull accentage by social in possible         No           Rull accentage by social in possible         No           Stataclo	Supporting protocol for LON		No
Supporting protocol for FERROS         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Shiretaface Safety at Work         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for Field Safety         No           Supporting protocol for FMERBUS Safety         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 Bluetooth         No           Radio standard SMR         No           Radio standard GMA         No           Radio	Supporting protocol for PROFINET IO		No
Supporting protocol for EtherkeWP         No           Supporting protocol for EtherkeWP         No           Supporting protocol for EtherkeWP         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for PROFIdate         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for SafetyBUS p         No           Radio standard Bluctoth         No           Radio standard WLAN 802.11         No           Radio standard WTAN 802.14         No           Radio standard WTAN 802.15         No           Radio standard WTAN 802.16         No           Radio standard WTAN 802.17         No           Radio standard WTAN 802.18         No           Radio standard WTAN 802.19         No           Radio standard WTAN 802.19         Yes           Radio standard WTAN 802.19         No           Radio standard WTAN 802.19         No           Radio standard WTAN 802.19         Yes           Radio standard WTAN 802.19	Supporting protocol for PROFINET CBA		No
Supporting protocol for EhenNet/IP         No           Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for DeviceNot Safety         No           Supporting protocol for DeviceNot Safety         No           Supporting protocol for FMDFsafe         No           Supporting protocol for FMDFsafe         No           Supporting protocol for Genthus systems         Yes           Radio standard Bluetooth         No           Radio standard SUALA W2.11         No           Radio standard GMA         No           Radio standard GMA         No           Radio standard UMTS         No           Oli Ink master         No           System accessory         Pug of protection (IP)           Upo of electric connection         Pug of protection (IP)           Upo of electric connection         Pug of electric connection           Time delay at stanglar exchange         No           Ridles schanger connection over separate bus coupler possible         Yes           Rall mounting possible         No           Wall mounting fortect mounting         No           Substable for safety functions         No           State cording to EN 954-1         No           Stutacerofing to EN 954-1         No <td>Supporting protocol for SERCOS</td> <td></td> <td>No</td>	Supporting protocol for SERCOS		No
Supporting protocol for As-Interface Safety at Work         No           Supporting protocol for Dowine Nat Safety         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for PROFISHE         No           Supporting protocol for other bus systems         Yes           Supporting protocol for other bus systems         No           Radio standard Blustooth         No           Radio standard WLAM 802.11         No           Radio standard GPRS         No           Radio standard UMTS         No           In Jim Master         No           System accessory         Yes           Degree of protection (IP)         IP20           Type of electric connection         No           System accessory         Yes           Degree of protection (IP)         IP20           Type of electric connection         No           System accessory         Yes           Degree of protection (IP)         IP20           Rail mounting possible         Yes           Wall mounting office thought         Yes           Wall mounting office thought         No           Sutable for safety functions         No           Catagory according to EN 954-1         No      <	Supporting protocol for Foundation Fieldbus		No
Supporting protocol for DeviceNet Safety         No           Supporting protocol for PROFISEIR         No           Supporting protocol for PROFISEIR         No           Supporting protocol for other bus systems         Yes           Radio standard Blustooth         No           Radio standard Bustooth         No           Radio standard SSM         No           Radio standard GSM         No           Radio standard MMTS         No           10 link master         Yes           Vego of electric (IP)         Yes           Type of electric connection         Yes           Time delay at signal exchange         Mo           Radio scandard MMTS         Yes           Use of electric connection         Yes           Use of electric connection         Yes           Use of electric connection         Yes           Wall mounting possible         Yes           Wall mounting possible         Yes           Wall mounting offeret mounting         Yes           Suitable for safety functions         No           La according t	Supporting protocol for EtherNet/IP		No
Supporting protocol for INTERBUS-Safety         No           Supporting protocol for PROISsafe         No           Supporting protocol for SafetyBUS p         No           Radio standard protocol for SafetyBUS p         No           Radio standard Bluetooth         No           Radio standard Bluetooth         No           Radio standard GRS         No           System accessory         Reger Great GRS           Begree of protection (IP)         Yes           Type of electric connection         Yes           Rall muniming passible         No           Wall mounting direct mounting	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         Yes           Radio standard Bluetoth         No           Radio standard Bluetoth         No           Radio standard WLAM 802-11         No           Radio standard QRRS         No           Radio standard QRSM         No           Radio standard UMTS         No           10 link master         Yes           System accessory         Yes           Degree of protection (IP)         120           Type of electric connection         Mo           Time delay st signal exchange         ms         0-3           Fieldbus connection overla separate bus coupler possible         Yes           Wall mounting/direct mounting         Yes         No           Front build in possible         No         No           Rack-assembly possible         No         No           Sutable for safety functions         No         No           State-ording to ER 6458B         No         No           Performance level acc. EN ISO 13849-1         No         No           Appendant operation agent (Ex ia)         No         No           A	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SafetyBUS p         No           Supporting protocol for other bus systems         Yes           Radio standard Blustooth         No           Radio standard WLAN 802.11         No           Radio standard GSM         No           Radio standard GSM         No           Radio standard UMTS         No           10 fink master         No           System accessory         Plag-in connaction           Uegree of protection (IP)         Plug-in connaction           Type of electric connection         ms         0 -0.3           Fieldbus connection over separate bus coupler possible         Yes           Rail mounting possible         Yes           Wall mounting/direct mounting         No           Sutable for safety functions         No           Sategory according to ER 954-1         No           Sil Laccording to EE 51508         No           Performance level acc. EN ISO 13849-1         No           Appendant operation agent (Ex ia)         No           Explosion safety category for dust         No           Width         No           Appendant operation agent (Ex ia)         No           Explosions afety category for dust         No           Width         No	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for other bus systems         Yes           Radio standard Bluetooth         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)         P20           Type of electric connection         P20           Fieldbus connection over separate bus coupler possible         Yes           Rail mounting possible         Yes           Well mounting/direct mounting         Yes           Front build in possible         Yes           Statable for safety functions         No           Category according to EK 954-1         No           Sit according to EK 954-1         No           Sit according to EK 91508         No           Performance level acc. EN ISO 13849-1         None           Appendant operation agent (Ex ia)         No           Appendant operation agent (Ex ia)         None           Explosion safety category for dust         None           With         None           Height         None	Supporting protocol for PROFIsafe		No
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         IP20           Type of electric connection over separate bus coupler possible         Yes           Rail mounting possible         Yes           Wall mounting forest mounting         No           Find bull in possible         No           Rack-assembly possible         No           Suitable for safety functions         No           Category according to IEC 61508         No           Performance level acc. EN ISO 13849-1         None           Suitable for safety functions capent (Ex ia)         None           Appendant operation agent (Ex ia)         None           Appendant operation agent (Ex ia)         None           Explosion safety category for dust         None           Width         Mne           Lexiposion safety category for dust         None           Width         None	Supporting protocol for SafetyBUS p		No
Radio standard WLAN 802.11         No           Radio standard GPRS         No           Radio standard GMM         No           Radio standard UMTS         No           10 link master         No           System accessory         Yes           Degree of protection (IP)         IP20           Type of electric connection         IP20           Type of electric connection over separate bus coupler possible         Yes           Rall mounting possible         Yes           Rall in possible         No           Rack-assembly possible         No           Rack-assembly possible         No           Suitable for safety functions         No           Category according to EN 954-1         No           SIL according to EC 61508         None           Performance level acc. EN ISO 13849-1         None           Appendant operation agent (Ex ia)         No           Appendant operation agent (Ex ia)         No           Explosion safety category for dust         None           Width         None           Explosion safety category for dust         None           Width         None	Supporting protocol for other bus systems		Yes
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 - 0.3           Finidebus connection over separate bus coupler possible         Yes           Rall 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         No           Sil. according to EC 61508         None           Performance level acc. EN ISO 13849-1         None           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	Radio standard Bluetooth		No
Radio standard GSM Radio standard UMTS 10 link master System accessory Degree of protection (IP) Type of electric connection Time delay at signal exchange Radii mounting possible Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Suitable for safety functions Category according to ELN 954-1 SIL according to ELC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Height  Mo  No  No  No  No  No  No  No  No  No	Radio standard WLAN 802.11		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 - 0.3           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 EK 954-1         None           Sil according to EK 954-1         None           Sil according to EK 954-1         None           Appendant operation agent (Ex ia)         None           Appendant operation agent (Ex ia)         No           Appendant operation agent (Ex ib)         None           Explosion safety category for dust         None           Width         mm         12.6           Height         mm         74.1	Radio standard GPRS		No
10 link master         No           System accessory         Yes           Degree of protection (IP)         IP20           Type of electric connection         IP20           Type of electric connection         IP30           Time delay at signal exchange         IP30           Fieldbus connection over separate bus coupler possible         Yes           Rail mounting jossible         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 81508         None           Performance level acc. EN ISO 13849-1         None           Appendant operation agent (Ex ia)         No           Appendant operation agent (Ex ic)         No           Explosion safety category for gas         None           Explosion safety category for dust         None           Width         Mm         126           Height         mm         74.1	Radio standard GSM		No
System accessory         Yes           Degree of protection (IP)         IP20           Type of electric connection         Plug-in connection           Time delay at signal exchange         ms         0 -0.3           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         No           SIL according to IEC 61508         None           Performance level acc. EN ISO 13849-1         None           Appendant operation agent (Ex ia)         No           Appendant operation agent (Ex ia)         No           Explosion safety category for dust         None           Width         Mne           Width         Mne           Width         mm         74.1	Radio standard UMTS		No
Degree of protection (IP) Type of electric connection Time delay at signal exchange Initial mounting possible Initial mounting possible Initial mounting possible Initial mounting officer mounting Initial in possible Initial in	10 link master		No
Type of electric connection Time delay at signal exchange ms 0 - 0.3 Fieldbus connection over separate bus coupler possible Rail mounting possible Wall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SUI according to EN 954-1 SUI according to EN 954-1 SUI according to EN 954-1 None Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Meight Minum Type of electric onnection No Plug-in connection Plug-in connection Plug-in connection No	System accessory		Yes
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  SIL according to IEC 61508  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Height  mm  12.6  Height	Degree of protection (IP)		IP20
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  SIL according to IEC 61508  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Height  Mo  Yes  Yes  No  No  No  No  No  No  No  No  None  Midth  Mm 12.6  mm 74.1	Type of electric connection		Plug-in connection
Rail mounting possible  Wall mounting/direct mounting  Front build in possible  Rack-assembly possible  Suitable for safety functions  Category according to EN 954-1  SIL according to IEC 61508  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Height  Wall mounting possible  No  No  No  No  No  No  No  No  No  N	Time delay at signal exchange	ms	0 - 0.3
Wall mounting/direct mounting Front build in possible Rack-assembly possible No Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for dust Width Height No	Fieldbus connection over separate bus coupler possible		Yes
Front build in possible Rack-assembly possible Ruck-assembly possibl	Rail mounting possible		Yes
Rack-assembly possible Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height  No No None None None None  None	Wall mounting/direct mounting		No
Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 None Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Height No No None None None None None None Non	Front build in possible		No
Category according to EN 954-1  SIL according to IEC 61508  None  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Height  None  Math  Mat	Rack-assembly possible		No
SIL according to IEC 61508  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Height  None  None  None  None  None  None  12.6  mm 74.1	Suitable for safety functions		No
Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mmm 12.6 Height None	Category according to EN 954-1		
Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ia) Append	SIL according to IEC 61508		None
Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Meight  No  None  None  12.6  Meight	Performance level acc. EN ISO 13849-1		None
Explosion safety category for gas  Explosion safety category for dust  Width  mm 12.6  Height  mm 74.1	Appendant operation agent (Ex ia)		No
Explosion safety category for dust Width mm 12.6 Height Table 12.6 Height Mone	Appendant operation agent (Ex ib)		No
Width mm 12.6 Height mm 74.1	Explosion safety category for gas		None
Height mm 74.1	Explosion safety category for dust		None
	Width	mm	12.6
Depth mm 55.4	Height	mm	74.1
	Depth	mm	55.4

## Approvals

UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
E205091
NRAQ, NRAQ7
UL report applies to both US and Canada
2252-01, 2252-81
UL recognized, certified by UL for use in Canada
No
No
IEC: IP20, UL/CSA Type: -

## **Dimensions**



## **Assets (links)**

**Declaration of CE Conformity** 

00002416

Manuals

MN05002010Z\_DE (German) MN05002010Z\_EN (English)

## **Additional product information (links)**

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