

Weigh module, 2 DMS, 24 bits

Part no. XN-322-2DMS-WM Article no. 178793 Catalog No. XN-322-2DMS-WM



Delivery program

Photo	
Function	XN300 technology modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 weigh module for XN300
Short Description	Weigh module, 2DMS, 24Bit
Description	Weigh slice module for connecting two Wheatstone bridges (strain gauge load cells). With a 24-bit resolution, readings will be available with an accuracy of $\pm 0.035\%$.
For use with	XN-312

Technical data

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		٧	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	9	°C	-20 - +85
Degree of Protection	U	U	IP20
Mounting position			Horizontal
Free fall, packaged (IEC/EN 60068-2-32)	0.5 /4	m	1
Vibrations	3,5 mm / 1 g	Hz	5 - 8.4 / 8.4 - 150
Mechanical shock resistance	Semisinusoida 15 g/11 ms	Impacts	18
Terminations			
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
Gauge pin IEC/EN 60947-1			A1
Anschlussvermögen			
"e" solid H07V-U		mm ²	0.2 - 1.5
"f" flexible H 07V-K		mm ²	0.2 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm ²	0.25 - 1.5
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm ²	0.25-1,5
Cable size		AWG	24 - 16
Supply			
Power supply - Input			
Power supply			
Current consumption for +5 V power supply (internal)	I	mA	(typ.) 50
Current consumption for +24 V power supply	I	mA	(typ.) 34
Power supply - Output			
Sensor/transmitter supply			
Rated operating voltage	Ua	V	5 (X1, X2)
Rated operational current	I _{max}	Α	66.3
Potential isolation			no
Rated operating voltage	Ua	V	5 (X1, X2)
Rated operational current	I _{max}	Α	66.3
Potential isolation			no
Heat dissipation			
Heat dissipation (without active channels)		W	0.785
Max. heat dissipation		W	1.295
Notes on heat dissipation		**	The max. heat dissipation is specified as the maximum power produced inside the
reces on near assipation			device's housing.
Analoge Eingänge			
Channels		Quantity	2
Measured variables			Voltage
Resolution		Bit	24
Min. value refresh time/cycle time	per channel / all channels	ms	4/4
Software input filter			parameterizable
Potential isolation			no
Notes on analog inputs			Wheatstone bridge, configurable measurement range
Design verification on new IEC/EN C4/20			
Design verification as per IEC/EN 61439			
Technical data for design verification			

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Rated operational current for specified heat dissipation

Equipment heat dissipation, current-dependent P _{vs} W 0 0 Static heat dissipation, non-current dependent P _{vs} W 0 0 Operating ambient temperature min. Operating ambient temperature dependent standards and parts Operating ambient temperature dependent standards requirements. Operating ambient temperature dependent standards req	Heat dissipation per pole, current-dependent	P_{vid}	W	0
Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. Degree of Protection 10.2 Strength of thermal stability of enclosures 10.2.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.4 Strength of materials and parts 10.2.5 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.5 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.5 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects 10.2.5 Verification of resistance of ultra-violet (UV) radiation 10.2.5 Iting 10.2.6 Machanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBUES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electric clicuits and connections 10.8 Connections for external conductors 10.9 Insurance electric discriptions 10.9 Insurance electric discriptions 10.9 Insurance electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electric discriptions electric shock 10.8 Connections for external conductors 10.9 Insurance electric discriptions and connections 10.9 Insurance electric discriptions electric shock 10.8 Insurance electric discriptions electric shock 10.9 Insurance electric discriptions electric shock 10.9 Insurance electric discriptions electric shock 10.9 Insurance electric electric electric electric shock 10.9 Insurance electric electric electric	Equipment heat dissipation, current-dependent	P _{vid}	W	0
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Technical data ETIM 6.0

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Number of HW-interfaces RS-485 Number of HW-interfaces serial TTY Number of HW-interfaces parallel Number of HW-interfaces Wireless Number of HW-interfaces other Number of HW-interfaces other Number of HW-interfaces other No Supporting protocol for TCP/IP O O O O O O O O O O O O O	Number of HW-interfaces RS-232			0	
Number of HW-interfaces serial TTY Number of HW-interfaces parallel Number of HW-interfaces Wireless Number of HW-interfaces other Vith optical interface Supporting protocol for TCP/IP O O O O O O O O O O O O O	Number of HW-interfaces RS-422			0	
Number of HW-interfaces parallel 0 Number of HW-interfaces Wireless 0 Number of HW-interfaces other 0 With optical interface No Supporting protocol for TCP/IP No	Number of HW-interfaces RS-485			0	
Number of HW-interfaces Wireless Number of HW-interfaces other Number of HW-interfaces other No Supporting protocol for TCP/IP No	Number of HW-interfaces serial TTY			0	
Number of HW-interfaces other 0 With optical interface No Supporting protocol for TCP/IP No	Number of HW-interfaces parallel			0	
With optical interface No Supporting protocol for TCP/IP No	Number of HW-interfaces Wireless			0	
Supporting protocol for TCP/IP No	Number of HW-interfaces other			0	
	With optical interface			No	
Supporting protocol for PROFIBUS No	Supporting protocol for TCP/IP			No	
	Supporting protocol for PROFIBUS			No	

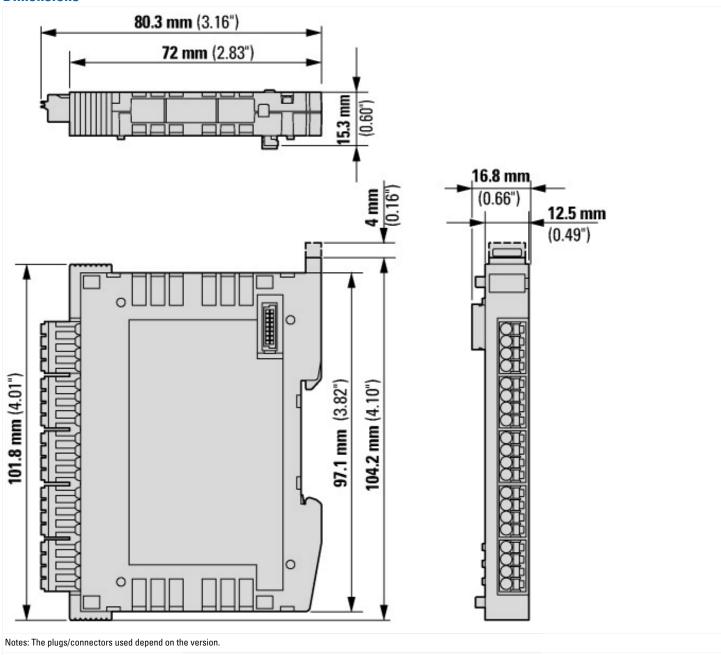
Construction and the CAN	N-
Supporting protocol for CAN	No No
Supporting protocol for INTERBUS	No
Supporting protocol for ASI	No
Supporting protocol for KNX	No
Supporting protocol for MODBUS	No
Supporting protocol for Data-Highway	No
Supporting protocol for DeviceNet	No
Supporting protocol for SUCONET	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 SafetyBUS p	No
Supporting protocol for other bus systems	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
Suitable for counting	No
Suitable for weighting	Yes
Suitable for temperature control	No
Suitable for welding control	No
Suitable for pressure control	No
Suitable for NC	No
Function electronic positioning available	No
Suitable for CNC	No
Suitable for SSI Suitable for incremental data detection	No No
	No
Suitable for detection absolute value	No No
Flux controller possible Suitable for flux measurement	No
Suitable for path controller	No
Suitable for cam controller	No
Suitable for flying saw	No
Suitable for multi-axis control	No
Single-axis controller possible	No
Suitable for multi-axis positioning	No
Single-axis positioning possible	No
Function block restart blockage	No
Function block automatic reset	No
Contactor control function block	No
Function block emergency stop	No
Function block contactless working protection installation	No
Function block affirm pushbutton	No
Function block 2-hand switching	No
Function block operating mode selection	No

Function block acces control		No
Degree of protection (IP)		IP20
Fieldbus connection over separate bus coupler possible		No
Frequency measurement		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		
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	16.8
Height	mm	104.2
Depth	mm	80.3

Approvals

Product Standards	CE, cULus	
UL File No.	E135462	

Dimensions



Dimensions

Additional product information (links)

MN050002 Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules		
MN050002 Handbuch XN300 Digitale I/O-Module, Analoge I/O-Module, Versorgungsmodule, Technologiemodule - Deutsch	odule, Analoge I/O-Module, rgungsmodule, Technologiemodule -	
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	
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111	