## DATASHEET - XN-322-2DMS-WM

## Weigh module, 2 DMS, 24 bits

Part no.

XN-322-2DMS-WM 178793



Fedures       Feldbus connection over separate bus coupler possible         Fitted with:       Parameterizable Software input filter         General information       For an enterizable Software input filter         Current consumption       Som A (typ.), for +5V power supply (internal), Power supply - Input         Degree of protection       Som A (typ.), for +24 V, Power supply (internal), Power supply - Input         Mounting method       Mounting possible         Number of channels       Analog Inputs         Overvoltage category       III         Pollution degree       Sittable for         Product category       Yeighting         Resolution       Yeighting         Voltage type       Notage type         Voltage type       De         Mounting position       Co         Ambient conditions, mechanical       Co         Mounting position       Forizontal         Mounting position       For	General specifications	
EA4     Product high-Unseth       Product high-Unseth     10.00000275       Product high-Unseth     10.00000275       Product high-Unseth     10.00000275       Product high-Unseth     10.00000275       Product high-Unseth     10.000000275       Product high-Unseth     10.00000000000000000000000000000000000	Product name	Eaton XN-322 Weigh module
Product Langkillungsh         Mail 2 millimetre           Product takingin         Product Takingin           Product Takingin         Product Takingin           Product Takingin         Product Takingin           <	Part no.	XN-322-2DMS-WM
Product height         Bit	EAN	7640130098275
Protect weight     061 biologues       Protect weight     061 biologues       Carefications     061 biologues       Protect Tradesame     1600 biologues       Protect Tradesame     242 52       Protect Tradesame     242 52       Protect Tradesame     242 52       Protect Tradesame     244 52       Protect Tradesame     248 566667       Protect Tradesame	Product Length/Depth	104.2 millimetre
Product winght:     List kap:     List kap: <td< td=""><td>Product height</td><td>16.8 millimetre</td></td<>	Product height	16.8 millimetre
Product Trademan       UF File Not ESSRAP         Product Trademan       X4.322         Product Trademan       X4.322         Product Trademan       X4.322         Product Type       Name         Product Type       Name         Product Stop Type       Name         Calling Notes       4/4         Product Stop Type       Name         Features & Functions       4/4         Product Stop Type       Name         Features & Functions       Yes Product Stop Type         Features & Functions       Yes Product Stop Type         Features & Functions       Product Stop Type         Features & Functions       Product Stop Type         Features & Functions       Product Stop Type         Fund with:       Stop Type Type         Current commangion       Stop Type Type Type         Maunting probabilies       Stop Type Type Type Type Type Type Type Typ	Product width	80.3 millimetre
Product Trademante       ISC ES N 1000 4-2         Product Trademante       NA 322         Product Trademante       NA 322         Product Type       None         Autor Sub Type       None         Catholy Nriss       4/4         Sub Type       None         Catholy Nriss       4/4         Sub Type       Product Sub Type         Fatures & Functions       4/4         Fatures & Functions       Product Sub Type         Current Consumption       Product Sub Type         Fatures & Functions       Product Sub Type         General information       Product Sub Type         Current Consumption       Product Sub Type         Product Traefward       Product Sub Type         Product Sub Type       Sub Althon To Althon Sub Consume Sub Type         Owneration Consumption       Product Sub Type         Product Sub Type       Sub Althon To Althon To Sub Type         Product Sub Type       Sub Althon To Althon To Sub Type         Product Sub Type       Sub Althon To	Product weight	0.061 kilogram
Product Type       None         Product Sub Type       None         Datalog Mares       None         Statiog Mares       None         Features & Functions       None         Features       Features         Find with:       Parameterizable Software input filter         Current consumption       Statiog Mares         Mouthing method       Statiog Mares         Number of channels       Statiog Inputs         Portect Chance       Statiog Inputs         Portect channels       Statiog Inputs         Number of channels       Statiog Inputs         Portect channels       Statiog Inputs         Statiog Inputs       Statiog Inputs         None of channels       Statiog Inputs         Statiog Inputs	Certifications	IEC/EN 61000-6-4 IEC/EN 61000-6-2 CULus CE
Product Sub Type       Non         Catalog Notes       4/4         Latalog Notes       2005, 2481         Weigh Tile machine to subjection is specified as the maximum power produced misich the device is housing.       2005, 2481         Weigh Tile machine to subject on the second prover Note Watattane bridge, configurable maximum and an excurse of a0.05%.       2005, 2481         Features & Functions       Features       Features         Field with:       Features       Features         General information       Features       Features         Current consumption       Sim Alps), for :4 Y Power supply - Input         Mouthing method       Features       Sim Alps), for :4 Y Power supply - Input         Number of channels       Sim Alps), for :4 Y Power supply - Input         Pollution degree       Rail mounting possible       Rail mounting possible         Product taisey       Rail mounting possible       X1322 weigh module         None       Yeigh Missense       Rail mounting possible         Poduct taisey       Rail mounting possible       X1322 weigh module <td< td=""><td>Product Tradename</td><td>XN-322</td></td<>	Product Tradename	XN-322
Catalog Notes         14.4. The max. hard disjuition is specified as the maximum power produced inside the Wings alive scale insignation is specified as the maximum power produced inside the Wings alive scale insignation is specified as the maximum power produced inside the wings alive scale insignation is specified as the maximum power produced inside the wings alive scale insignation is specified as the maximum power produced inside the wings alive scale insignation is specified as the maximum power produced inside the wings alive scale insignation is specified as the maximum power produced inside the concent on wings and the scale insignation is specified as the maximum power produced inside the concent on wings and the scale insignation is specified as the maximum power produced inside the concent on wings and the scale insignation is specified as the maximum power produced inside the concent on wings and the scale insignation is specified as the maximum power produced inside alive with with a accuracy of alive scale insignation is specified as the maximum power produced inside the concent on wings and the scale insignation is specified as the maximum power produced inside the concent on wings and the scale insignation is specified as the maximum power produced in the dwith:           General information         Power wings and the concenter on wings and the scale insignation is specified as the maximum power produced in the dwith:           Numerical method         Power wings and the concenter on wings and the scale insignation is specified as the maximum power produced in the dwith is the dwith in the scale insignation is specified as the maximum power produced in the dwith is the dwith in the scale insignation is the dwith insignation is the dwith is	Product Type	Weigh module
Features & Functions         Image: Section Se	Product Sub Type	None
Features       Feddues connection over separate bus coupler possible         Finde with:       Parameterizable Software input filter         Gurrent consumption       Som A(typ.), for +SV power supply (internal), Power supply - input         Current consumption       Som A(typ.), for +SV power supply (internal), Power supply - input         Degree of protection       Rain M(typ.), for +SV power supply - input         Mounting method       Rain M(typ.), for +SV power supply - input         Number of channels       Q. Analog Inputs         Overvoltage category       III         Pollucion degree       Z. Analog Inputs         Suitable for       Sindable protection         Suitable for       Kisson         Type       Kisson         Voltage type       Mattornal, Possible         Aubient conditions, mechanical       Mattornal, Possible         Mounting position       Mattornal, Possible         Mounting position       Mattornal, Half-sinusoidal shock 11 ms, 18 Impacts         Mounting position       Mattornal, Post-top Half-sinusoidal shock 11 ms, 18 Impacts         Mounting position       Mattornal, Half-sinusoidal shock 11 ms, 18 Impacts         Mounting position       Mattornal, Half-sinusoidal shock 11 ms, 18 Impacts         Mounting position       Mattornal, Half-sinusoidal shock 11 ms, 18 Impacts	Catalog Notes	The max. heat dissipation is specified as the maximum power produced inside the device's housing. Voltage Weigh module, 2DMS, 24Bit 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 ±0.035%.
Fitted with:       Parameterizable Software input filter         General information       50 mA (typ.), for +5 V power supply (internal), Power supply - Input         Current consumption       50 mA (typ.), for +5 V power supply - Input         Degree of protection       50 mA (typ.), for +5 V power supply - Input         Mounting method       8ail mounting possible         Number of channels       2, Analog Inputs         Overvoltage category       8ail mounting possible         Pollution degree       3         Pollution degree       1         Pollution degree       3         Pollution degree       8ail mounting possible         Pollution degree       1         Pollution degree       1         Suitable for       XN-322 weigh module         Suitable for       XN300 technology module         Voltage type       XN300 technology module         Voltage type       DC         Ambient conditions, mechanical       1         Mounting position       15.g. Metanical, IAIF sinusoidal shock 11 ms, 18 Impacts         Shock resistance       15.g. Metanical, IAIF sinusoidal shock 11 ms, 18 Impacts         Vibration resistance       15.g. Metanical, IAIF sinusoidal shock 11 ms, 18 Impacts         Shock resistance       15.g. Metanical, IAIF sinusoidal shock 11 ms, 18	Features & Functions	
General information       For any supply informable, Power supply informable, Power supply - Input         Current consumption       Som A (typ.), for +5 V power supply - Input         Degree of protection       Som A (typ.), for +24 V, Power supply - Input         Mounting method       P20         Number of channels       Rail mounting possible         Overovbage category       II         Pollution degree       II         Pollution degree       XN-322 weigh module         Resolution       XN-322 weigh module         Suitable for       XN-322 weigh module         Type       XN300 technology module         Used with       XN300 technology module         Voltage type       Norations, mechanical         Mounting position       Main fail (IEC/EN 60068-2:32) - max         Noder (tip possure)       Horizontal         Mounting position       Mounting position         Shock resistance       In resource         Vibration resistance       Is (Al-150 Hz, 35 mm / 1 g)         Vibration resistance       Is (Al-150 Hz, 35 mm / 1 g)         Anbient operating temperature - min       Is (Color Color C	Features	Fieldbus connection over separate bus coupler possible
Current consumption       Som A (typ.), for +5 V power supply (internal), Power supply - Input         Degree of protection       F20         Mounting method       Rail mounting possible         Number of channels       Analog inputs         Overvoltage category       III         Pollution degree       S3         Product category       Main (typ.), for +5 V power supply (internal), Power supply - Input         Suitable for       III         Type       S3         Votage type       Nadouting method         Used with       XN300         Votage type       Nadouting method         Mounting position       XN300         Noting position       XN300         Noting position       YN300         Notex resistance	Fitted with:	Parameterizable Software input filter
24 mA (typ.), for +24 V, Power supply - Input         Degree of protection       PAD         Mounting method       Rail mounting possible         Number of channels       2, Analog Inputs         Overvoltage category       III         Pollution degree       3         Product category       4 Bit (Analog inputs)         Resolution       24 Bit (Analog inputs)         Suitable for       Velogitting         Type       Voltage type         Voltage type       Defection         Abient conditions, mechanical       E         Mounting position       Forizontal         Shock resistance       Mounting position         Vibration resistance       Forizontal         Air pressure       Air pressure         Ambient operating temperature - min       Since Net Solution         Ambient operating temperature - max       Since Net Solution	General information	
NEMA 1Mouning methodRail mounting possibleNumber of channels2, Analog InputsOvervoltage categoryIIIPollution degreeXN-322 weigh moduleProduct categoryZ4 Bit (Analog inputs)ResolutionZ4 Bit (Analog inputs)Suitable forWeightingTypeXN3030 technology moduleUsed withDCAubient conditions, mechanicalNS00Mouning positionDCAmbient conditions1 mMouning position1 mShock resistance1 mVibration resistance5 s.4 / .4 - 150 Hz, .35 mm / 1 gAnipersure755 - 1080 hPa (operation)Anipersure0 °CAmbient conditions mechanical0 °CAmbient operating temperature - max0 °CAmbient operating temperature - max0 °C		34 mA (typ.), for +24 V, Power supply - Input
Number of channelsImage: Analog InputsOvervoltage categoryIIIPollution degree3Product categoryXN-322 weigh moduleResolution24 Bit (Analog inputs)Suitable forWeightingTypeXN300 technology moduleUsed withXN300 technology moduleNoting positionDCAmbient conditions, mechanicalInMounting positionInStock resistanceInVibration resistanceFag. Akt. 4-150 Hz, 3,5 mm / 1gVibration resistance795 - 1080 hPe (operation)Arbient conditions, mechanical795 - 1080 hPe (operation)Aripressure795 - 1080 hPe (operation)Ambient operating temperature - min0°CAmbient operating temperature - mexIn °CAmbient operating temperature - mex0°C		
Overvoltage category       II         Pollution degree       3         Product category       XN-322 weigh module         Resolution       24 Bit (Analog inputs)         Suitable for       Weighting         Type       XN-300 technology module         Used with       XN-301 technology module         Voltage type       DC         Ambient conditions, mechanical       Im         Mounting position       1 m         Shock resistance       15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts         Vibration resistance       15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts         Air pressure       795 - 1080 hPa (operation)         Ambient operating temperature - min       Im         Ambient operating temperature - max       Im	Mounting method	Rail mounting possible
Pollution degree       3         Product category       XN-322 weigh module         Resolution       24 Bit (Analog inputs)         Suitable for       Weighting         Type       N300 technology module         Used with       XN-302         Votage type       DC         Ambient conditions, mechanical       Im         Mounting position       Im         Shock resistance       Im         Vibration resistance       Im         Aripressure       Sing Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts         Air pressure       Sing Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts         Aripressure       Sing Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts         Ambient operating temperature - min       Go °C	Number of channels	2, Analog Inputs
Product categoryNa22 weigh moduleResolution24 Bit (Analog inputs)Suitable for24 Bit (Analog inputs)Suitable forWeightingTypeX300 technology moduleUsed withX300Voltage typeDAmbient conditions, mechanicalMounting positionMounting positionImShock resistanceSig Mechanical, Half-sinusoidal shock 11 ms, 18 ImpactsVibration resistanceSig Mechanical, Half-sinusoidal shock 11 ms, 18 ImpactsVibration resistanceSig Mechanical, Half-sinusoidal shock 11 ms, 18 ImpactsAri pressureSig Mechanical, Sig MechanicalAri pressureSig MechanicalAmbient operating temperature - minGetterAmbient operating temperature - maxGetterBellet of signet apperature - maxGetterBellet of signet apperature - maxSignet apperature - max	Overvoltage category	
Resolution       24 Bit (Analog inputs)         Suitable for       Weighting         Type       XN300 technology module         Used with       XN300         Voltage type       C         Ambient conditions, mechanical       Im         Mounting position       Im         Shock resistance       Im         Vibration resistance       For anical, Half-sinusoidal shock 11 ms, 18 Impacts         Singer types       State Alex 150 Hz, 35 mm / 1 g         Ambient operating temperature - min       O °C         Ambient operating temperature - max       Im	Pollution degree	3
Suitable forWeightingTypeXN300 technology moduleUsed withXN300 technology moduleVoltage typeDCAmbient conditions, mechanicalDCHeight of fall (IEC/EN 60068-2-32) - maxImMounting position1 mShock resistance1 mYobration resistance5 - 8.4 / 8.4 - 150 Hz, 3,5 mm / 1 gClimatic environmental conditions5 - 8.4 / 8.4 - 150 Hz, 3,5 mm / 1 gAmbient operating temperature - min6 C CAmbient operating temperature - max6 C C	Product category	XN-322 weigh module
Type       XN300 technology module         Used with       XN300         Voltage type       XN300         Ambient conditions, mechanical       DC         Height of fall (IEC/EN 60068-2-32) - max       1m         Mounting position       1m         Shock resistance       Horizontal         Vibration resistance       Horizontal         Climatic environmental conditions       5 - 84 / 84 - 150 Hz, 3,5 mm / 1 g         Ari pressure       795 - 1080 hPa (operation)         Ambient operating temperature - min       0 °C         Ambient operating temperature - max       1 m	Resolution	24 Bit (Analog inputs)
Used with       XN300         Voltage type       DC         Ambient conditions, mechanical       DC         Height of fall (IEC/EN 60068-2-32) - max       Im         Mounting position       Mounting position         Shock resistance       Mounting position         Vibration resistance       For (Arron Half-sinusoidal shock 11 ms, 18 Impacts)         Climatic environmental conditions       For (Arron Half-sinusoidal shock 11 ms, 18 Impacts)         Arbient operating temperature - min       Go °C	Suitable for	
Votage type       C         Ambient conditions, mechanical       C         Height of fall (IEC/EN 60068-2-32) - max       Im         Mounting position       Im         Shock resistance       Forizontal         Vibration resistance       So & Added	Туре	XN300 technology module
Ambient conditions, mechanical       Im         Height of fall (IEC/EN 60068-2-32) - max       Im         Mounting position       Horizontal         Shock resistance       Horizontal         Vibration resistance       For All (IEC/EN 60068-2-32) - max         Otimatic environmental conditions       For Source         Air pressure       For Source         Ambient operating temperature - min       For Source         Ambient operating temperature - max       For Source	Used with	
Height of fall (IEC/EN 60068-2-32) - max       Im         Mounting position       Horizontal         Mounting position       Horizontal         Shock resistance       5.9, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts         Vibration resistance       5.84/8.4 - 150 Hz, 3,5 mm / 1 g         Air pressure       Moment operating temperature - min         Ambient operating temperature - max       Im		DC
Mounting position     Moizontal       Shock resistance     15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts       Vibration resistance     5-8.4 / 8.4 - 150 Hz, 3,5 mm / 1 g       Climatic environmental conditions     795 - 1080 hPa (operation)       Air pressure     0°C       Ambient operating temperature - man     60°C	Ambient conditions, mechanical	
Shock resistance     15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts       Vibration resistance     5 - 8.4 / 8.4 - 150 Hz, 3,5 mm / 1 g       Climatic environmental conditions     795 - 1080 hPa (operation)       Ambient operating temperature - min     0 °C       Ambient operating temperature - max     60 °C	Height of fall (IEC/EN 60068-2-32) - max	1 m
Vibration resistance     Solution for the second seco	Mounting position	Horizontal
Climatic environmental conditions     Model       Air pressure     795 - 1080 hPa (operation)       Ambient operating temperature - min     Model       Ambient operating temperature - max     Model	Shock resistance	15 g, Mechanical, Half-sinusoidal shock 11 ms, 18 Impacts
Air pressurePassesPassesAmbient operating temperature - minPasses0°CAmbient operating temperature - maxPasses0°C	Vibration resistance	5 - 8.4 / 8.4 -150 Hz, 3,5 mm / 1 g
Ambient operating temperature - min     0 °C       Ambient operating temperature - max     60 °C	Climatic environmental conditions	
Ambient operating temperature - max 60 °C	Air pressure	795 - 1080 hPa (operation)
	Ambient operating temperature - min	0 °C
Ambient storage temperature - min 20 °C	Ambient operating temperature - max	60 °C
	Ambient storage temperature - min	-20 °C

Ambient storage temperature - max	85 °C
Climatic proofing	Dry heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-3
Environmental conditions	Condensation: prevent with appropriate measures
Relative humidity	0 - 95 % (non-condensing)
Electro magnetic compatibility	
Air discharge	8 kV/4 kV, Air/contact discharge, ESD
Burst impulse	1 kV, Signal cable 2 kV, Supply cable
Electromagnetic fields	10 V/m at 0.08 - 1.0 GHz (according to IEC EN 61000-4-3) 1 V/m at 2 - 2.7 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Emitted interference	47 dB (at 230 - 1000 MHz, Class A, radiated, high frequency) 40 dB (at 30 - 230 MHz, Class A, radiated, high frequency)
Radiated RFI	10 V
Surge rating	0.5/0.5 kV, Supply cable, balanced/unbalanced), EMC 1 kV, Signal cable, unbalanced, EMC
Voltage dips	Voltage dips: 10 ms/Voltage fluctuations: Yes
Terminal capacities	
Terminal capacity	0.2 - 1.5 mm <sup>2</sup> , flexible without ferrule, H07V-K 0.25 - 1.5 mm <sup>2</sup> , with ferrules without plastic collar according to DIN 46228-1 (ferrule crimped gas-tight) 0.25 - 1.5 mm <sup>2</sup> , with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) 0.2 - 1.5 mm <sup>2</sup> , solid, H07V-U 24 - 16 AWG
Gauge pin	A1 (according to IEC/EN 60947-1)
Stripping length (main cable)	10 mm
Insulating material group	
Electrical rating	
Rated control supply voltage	5 V (X1, X2, Sensor/transmitter supply)
Rated operational current (Ie)	Max. 66.3 A (supply output)
Rated operational voltage	160 V (terminations)
Supply voltage at AC, 50 Hz - min	0 V AC
Supply voltage at AC, 50 Hz - max	0 V AC
Supply voltage at DC - min	0 V DC
Supply voltage at DC - max	0 V DC
Communication	
Connection	Push-in spring-cage terminal (plug-in connection) in TOP direction
Protocol	Other bus systems
Input/Output	
Load current	Not specified by plug manufacturer
Safety	
Explosion safety category for dust	None
Explosion safety category for gas Potential isolation	None Sensor/transmitter supply: no Analog inputs: no
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	1.295 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0**

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - function-/technology module (EC001601)

Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - function-/ technology module (ecl@ss13-27-24-26-05 [BAA066019])

lechnology module (eci@ss13-27-24-20-05 [DAA000019])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	0 - 0
Voltage type (supply voltage)		DC
Number of functions		0
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		2
With optical interface		No
Supporting protocol for EtherCAT		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		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

appropriorbation MERGENSA         is indecedded in a section of the section of	Supporting protocol for DeviceNet Safety	No
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Subale for temperature controlImage: Subale for Non- No		
Saiable for weathing controlNoSuitable for pressure controlNoSuitable for ACNoSuitable for AC <td< td=""><td></td><td></td></td<>		
Salable for pressure central         Na           Subble for NR         Na           Subble for NR         Na           Subble for NR         Na           Subble for NR         Na           Subble for SN         Na           Subble for SN         Na           Subble for filt measurement         Na           Filt for filt measurement         Na           Subble for filt measurement         Na           Filt for		
Stable for NC         No           Stable for NC         No           Stable for Subscience         No           Stable for Subscience         No           Stable for function in a function in a stable for functin a stable for functi		
Subale for electronic pairsioning         No           Subale for CNC         No           Subale for CNC         No           Subale for informantal data direction         No           Subale for inforcemental data direction         No           Subale for inforcemental data direction         No           Subale for func controller         No           Subale for func controller         No           Subale for multi-xix positioning         No           Function block atomatic reser         No           Function block access control         No           Function block access control         No           Function block access control         No		
Suitable for CNCNoSuitable for CSSINoSuitable for fictor instrumental data durationNoSuitable for morollerNoSuitable for multi-axis controllerNoSuitable for multi-axis controllerNoContactor control function blackNoContactor control function blackNoContactor control function blackNoFunction black morating protection installationNoFunction black controllerNoFunction black controllerNoFunction black morating motection installationNoFunction black controllerNoFunction black controllerNoFunction black controllerNoFunction black controllerNoFunction black controllerNoFunction black controller		
Surbabe for SS1Image: Solution of the constrained and decisionSurbabe for incremental data decisionNoSurbabe for incremental data decisionNoSurbabe for fur consulterNoSurbabe for fur consulter surpcise consulterNoFunction block consulters working protection installationNoFunction block consulter surpcise consulterNoFunction block consulter surpcise consulterNoFunction block consulterNoFunction		
Subable for detection absolute valueNoSubable for detection absolute valueNoSubable for fux controllerNoSubable for fux servementNoSubable for multi-asis postioningNoSubable for multi-asis postioningNoFunction block attrast blockageNoFunction block attrast blockageNoFunctio		
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Suitable for fux controller         No           Suitable for fux measurement         No           Suitable for fux measurement         No           Suitable for path controller         No           Suitable for fux measurement         No           Suitable for multi-axis controller         No           Suitable for insile-axis controller         No           Function block with solutioning         No           Function block with solutioning         No           Function block withing protection installation         No           Function block attrafter solution		
Subble for fux measurement         Image: Subble for fux measurement         Image: Subble for submer controller         Image: Subble for submer controller         Image: Subble for submer controller         Image: Submer control Subm		
Suitable for path controller         No           Suitable for fying saw         No           Suitable for single-axis positioning         No           Suitable for single-axis positioning         No           Function block automatic reset         No           <		
Suitable for anit controller         No           Suitable for multi-kkis control         No           Function block automatic reset         No           Contactor control function block         No           Function block automatic reset         No           Function block automatic reset         No           Function block automatic reset         No           Function block adverses control         Mo           Function block automatic reset         No           Function bloc		
Sutable for flying saw       Image: Sutable for flying saws controller       No         Sutable for multi-axis controller       No         Sutable for multi-axis postioning       No         Sutable for multi-axis postioning       No         Function block restart blockage       No         Function block attromatic reset       Mo         Function block serving protection installation       Mo         Function block attrime switching       Mo         Function block operating mode selection       Mo         Function block apperating mode selection       Mo         Function block ap		
Suitable for multi-axis controller         No           Suitable for multi-axis controller         No           Suitable for multi-axis positioning         No           Function block area         No           Contactor control function block         No           Function block area         No      <		
Suitable for single-axis controller         Image: Solution of Solutio		
Suitable for wingle-axis positioning         Image: Provide start block age         No           Suitable for single-axis positioning         No         No           Function block reset         No         No           Contactor control function block         No         No           Contactor control function block         No         No           Function block affirm pushbutton         No         No           Function block affirm pushbutton         No         No           Function block affirm pushbutton         No         No           Function block access control         No         No           Degree of protection (NEMA)         Provide start block access control         No           Performance leasurement         No         No         No           Rail mouning/direct mounting         No         No         No           Fort built-in possible         No         No         No           Rail mounting/direct mounting         No         No         No           Suitable for safety functions         No <td></td> <td></td>		
Suitable for single-axis postioning       Image: Single Axis postioning       No         Function block restart blockage       No       No         Contactor control function block       No       No         Function block automatic reset       No       No         Function block automatic reset       No       No         Function block control function block       No       No         Function block automatic reset       No       No         Function block access control       No       No         Degree of protection (NEMA)       Yes       No         Fieldbus connection over separate bus coupler possible       Yes       No         Fieldbus connection over separate bus coupler possible       Yes       No         Rail mounting drivert mounting       Yes       No       No         Rail mounting possible       No       No       No         Suitable for safety functions       Yes       No       No         Suitable for safety functions       No <t< td=""><td></td><td></td></t<>		
Function block restart blockage       Image: Book of the set of the se		
Function block automatic reset       No         Contactor control function block       No         Function block amergency stop       No         Function block contactless working protection installation       No         Function block affirm pushbutton       No         Function block affirm pushbutton       No         Function block access control       No         Begree of protection (NEMA)       No         Fieldbus connection over separate bus coupler possible       No         Find built no possible       No         Rail mounting offstiert mounting       No         Stabele for safety functions       No         St		
Chatactor control function block       No         Function block emergency stop       No         Function block contactless working protection installation       No         Function block aftirm pushbutton       No         Function block contactless working protection installation       No         Function block aftirm pushbutton       No         Function block afters working protection installation       No         Function block afters working protection installation       No         Function block afters working protection       No         Function block access control       No         Function block access control       No         Function block access control       No         Bage of protection (NEMA)       Yes         Frequency measurement       Yes         Fund unuting direct mounting       Yes         Frequency measurement       No         Suitable for safety functions       No         Suitable for safety functions (Exis)       No         Appendiet operation agent (Exis)       No		
Function block emergency stop       No         Function block contactless working protection installation       No         Function block affirm pushbutton       No         Function block affirm pushbutton       No         Function block aperating mode selection       No         Function block access control       No         Degree of protection (NEMA)       Po         Frequency measurement       Yes         Rail mounting obssible       No         Frequency mode selections       Yes         Wall mounting/direct mounting       Yes         Rack-assembly possible       No         Suitable for safety functions       Yes         Appendant operation agent (Ex is)       No         Appendant operation agent (Ex is)       No		
Function block contactless working protection installation       No         Function block affirm pushbutton       No         Function block 2-hand switching       No         Function block 2-hand switching       No         Function block 2-hand switching       No         Function block access control       No         Degree of protection (IP)       No         Degree of protection (NEMA)       1         Fieldbus connection over separate bus coupler possible       Yes         Rail mounting forest nouting       Yes         Wall mounting/direct mounting       No         Rail mounting/direct mounting       No         Suitable for safety functions       No         Suitable for safety functions       No         Appendant operation agent (Ex ia)       No         Appendant operation agent (Ex ib)       No	Contactor control function block	
Function block affirm pushbutton       No         Function block 2-hand switching       No         Function block 2-hand switching       No         Function block operating mode selection       No         Function block access control       No         Degree of protection (IP)       No         Degree of protection (NEMA)       P20         Fieldbus connection over separate bus coupler possible       Yes         Frequency measurement       No         Rail mounting/direct mounting       Yes         Wall mounting/direct mounting       No         Subble for safety functions       No         Subble for safety functions       No         Subable for safety functions       No         Appendant operating agent (Ex ia)       None         Appendant operating agent (Ex ia)       No	Function block emergency stop	No
Function block 2-hand switching       No         Function block operating mode selection       No         Function block access control       No         Degree of protection (IP)       IP20         Degree of protection (NEMA)       Image: Selection         Fieldbus connection over separate bus coupler possible       Image: Selection         Frequency measurement       Image: Selection         Aul mounting/direct mounting       Image: Selection         Frequency functions       Image: Selection         Suitable for safety functions       Image: Selection         Suitable for safety functions       Image: Selection         Suitable for safety functions       Image: Selection         Appendant operation agent (Ex ib)       Image: Selection         Appendant operation agent (Ex ib)       Image: Selection		No
Function block operating mode selection       No         Function block access control       No         Degree of protection (IP)       IP20         Degree of protection (NEMA)       I         Fieldbus connection over separate bus coupler possible       Yes         Frequency measurement       No         Rail mounting possible       Yes         Wall mounting/direct mounting       Yes         Frequency measurement       No         Suitable for safety functions       Yes         Suitable for safety functions       No         Suitable for safety functions       No         Performance level according to EN ISO 13849-1       No         Appendant operation agent (Ex is)       No         Appendant operation agent (Ex isi)       No	Function block affirm pushbutton	No
Function block access control       Mo         Degree of protection (IP)       IP20         Degree of protection (NEMA)       I         Fieldbus connection over separate bus coupler possible       Ves         Frequency measurement       No         Rail mounting possible       Ves         Wall mounting/direct mounting       Ves         Front built-in possible       Ves         Rack-assembly possible       Ves         Suitable for safety functions       Ves         Suitable for safety functions       Ves         Performance level according to ENISO 13849-1       No         Appendant operation agent (Exi ia)       Ves         Appendant operation agent (Exi ia)       Ves	Function block 2-hand switching	
Degree of protection (IP)P20Degree of protection (NEMA)IFieldbus connection over separate bus coupler possibleYesFrequency measurementYesRail mounting possibleNoWall mounting/direct mountingNoFront built-in possibleNoRack-assembly possibleNoSuitable for safety functionsNoSuitable for safety functionsNoPerformance level according to EN ISO 13849-1NoAppendant operation agent (Ex ia)NoAppendant operation agent (Ex ib)Mo	Function block operating mode selection	
Degree of protection (NEMA)       I         Degree of protection (NEMA)       Yes         Frequency measurement       No         Rail mounting possible       No         Wall mounting/direct mounting       No         Front built- in possible       No         Statable for safety functions       No         Suitable for safety functions       No         Statable for safety functions       No         Performance level according to EN ISO 13849-1       No         Appendant operation agent (Ex ia)       No         Appendant operation agent (Ex ia)       No	Function block access control	
Fieldbus connection over separate bus coupler possibleYesFrequency measurementNoRail mounting possibleYesWall mounting/direct mountingNoFront built-in possibleNoRack-assembly possibleNoSuitable for safety functionsNoSll according to EC 61508NonePerformance level according to EN ISO 13849-1NoneAppendant operation agent (Ex ia)MoAppendant operation agent (Ex ib)Mo	Degree of protection (IP)	IP20
Frequency measurementNoRail mounting possibleYesWall mounting/direct mountingNoFront built-in possibleNoRack-assembly possibleNoRack-assembly possibleNoSuitable for safety functionsSIL according to EK 1508Performance level according to EN ISO 13849-1SileAppendant operation agent (Ex ia)SileAppendant operation agent (Ex ib)Sile	Degree of protection (NEMA)	1
Rail mounting possibleYesWall mounting/direct mountingNoFont built-in possibleNoRack-assembly possibleNoSuitable for safety functionsSoSIL according to EC 61508NonePerformance level according to EN ISO 13849-1SoAppendant operation agent (Ex ia)SoAppendant operation gent (Ex ib)So	Fieldbus connection over separate bus coupler possible	Yes
Wall mounting/direct mountingModeFront built- in possibleNoRack-assembly possibleNoSuitable for safety functionsNoSU according to IEC 61508NonePerformance level according to EN ISO 13849-1NoneAppendant operation agent (Ex ia)NoAppendant operation gent (Ex ib)Mode	Frequency measurement	No
Front built-in possibleNoRack-assembly possibleNoSuitable for safety functionsMoSuitable for safety functionsNoSIL according to IEC 61508NonePerformance level according to EN ISO 13849-1NoneAppendant operation agent (Ex ia)NoAppendant operation agent (Ex ib)Mo	Rail mounting possible	Yes
Rack-assembly possibleNoSuitable for safety functionsNoSuitable for safety functionsNoSIL according to IEC 61508NonePerformance level according to EN ISO 13849-1NoneAppendant operation agent (Ex ia)NoAppendant operation agent (Ex ib)No	Wall mounting/direct mounting	No
Suitable for safety functionsNoSLI according to IEC 61508NonePerformance level according to EN ISO 13849-1NoneAppendant operation agent (Ex ia)NoAppendant operation agent (Ex ib)Mo	Front built-in possible	No
SIL according to IEC 61508     None       Performance level according to EN ISO 13849-1     None       Appendant operation agent (Ex ia)     No       Appendant operation agent (Ex ib)     Mo	Rack-assembly possible	No
Performance level according to EN ISO 13849-1     None       Appendant operation agent (Ex ia)     No       Appendant operation agent (Ex ib)     No	Suitable for safety functions	No
Appendant operation agent (Ex ia)     No       Appendant operation agent (Ex ib)     No	SIL according to IEC 61508	None
Appendant operation agent (Ex ib) No	Performance level according to EN ISO 13849-1	None
	Appendant operation agent (Ex ia)	No
Explosion safety category for gas None	Appendant operation agent (Ex ib)	No
	Explosion safety category for gas	None

Explosion safety category for dust     None       Certified for UL hazardous location class II     No       Certified for UL hazardous location class III     No       Certified for UL hazardous location class III     No	
Certified for UL hazardous location class II No	
Certified for UL hazardous location class III No	
Certified for UL hazardous location division 1 No	
Certified for UL hazardous location division 2 No	
Certified for UL hazardous location group A (acetylene) No	
Certified for UL hazardous location group B (hydrogen) No	
Certified for UL hazardous location group C (ethylene) No	
Certified for UL hazardous location group D (propane) No	
Certified for UL hazardous location group E (metal dusts) No	
Certified for UL hazardous location group F (carbonaceous dusts) No	
Certified for UL hazardous location group G (non-conductive dusts) No	
Width mm 80.3	
Height mm 16.8	
Depth mm 104.2	