DATASHEET - NZM-XSWD-704



Connection, SmartWireDarwin, for NZM

Part no. NZM-XSWD-704 Catalog No. 135530

EL-Nummer (Norway)

0004520017





Product range	SmartWire-DT slave
Subrange	SmartWire-DT module NZM circuit-breakers
Product range	Accessories
Standard/Approval	IEC
Construction size	NZM2/3/4
Accessories	Accessories, diagnostics & communication
Function	The module implements the data connection between the NZM2/3/4 with electronic release and SmartWire-DT.
Description	A switch with a remote operator can also be remotely operated with the module. Two digital inputs for the switch status 2 transistor outputs for remote switching Retentive memory for energy data (kWh) Energy data is transmitted through digital input (S0) from an external energy measuring module NZNXMC-SO.
Messages	Status data NZM: ON/OFF/TRIPPED Load warnings Reason for last trip Actual current value in A Switch type Actual settings of the rotary coding switches
Information about equipment supplied	A connection cable (1.90 m) for the circuit-breaker and two NZM auxiliary contacts (1 x N0, 1 x NC) are included as standard.
For use with	SmartWire-DT interface for NZM circuit-breakers
Connection to SmartWire-DT	yes

Technical data

General

20110101		
Standards		IEC/EN 61131-2 EN 50178
Approvals		
shipping classification		DNV GL BV LRS
Dimensions (W x H x D)	mm	35 x 90 x 101
Weight	kg	0.1
Mounting		Top-hat rail IEC/EN 60715, 35 mm
Mounting position		Vertical
Climatic environmental conditions		

Relative humidity		
Condensation		Take appropriate measures to prevent condensation
Relative humidity, non-condensing (IEC/EN 60068-2-30)	%	5 - 95

Ambient conditions, mechanical

Overvoltage category
Pollution degree

Ambient Conditions, mechanical			
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations (IEC/EN 61131-2:2008)			
Constant amplitude 3,5 mm		Hz	5 - 8.4
Constant acceleration 1 g		Hz	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	9
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3
Electromagnetic compatibility (EMC)			

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Electrostatic discharge (IEC/EN 61131-2:2008)						
Air discharge (Level 3)		kV	8			
Contact discharge (Level 2)		kV	4			
Electromagnetic fields (IEC/EN 61131-2:2008)						
80 - 1000 MHz		V/m	10			
1.4 - 2 GHz		V/m	3			
2 - 2.7 GHz		V/m	1			
Radio interference suppression (SmartWire-DT)			EN 55011 Class A	4		
Burst (IEC/EN 61131-2:2008, Level 3)						
Supply cable		kV	2			
Signal lines		kV	1			
SmartWire-DT cables		kV	1			
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V	10			
SmartWire-DT network		-	-			
Station type			SmartWire-DT s	lave		
Setting the baud rate			automatic			
Status SmartWire-DT		LED	Green			
Connection			Plug, 8-pole Connection plug	: External device	plug SWD4-8SF2-5	
Current consumption (15 V SWD supply)			Electricity consumption	Bus	AUX 24 V With active remote operator mA	AUX 24 V with remote operator inactive mA
onnection supply and I/O			NZM- XSWD-704	35	300	100
Ferminal for I/O sensor						
Connection type			Push in terminal	s		
Solid		mm ²	0.2 - 1.5 (AWG 24	ł - 16)		
Flexible with ferrule		mm ²	0.25 - 1.5			
Digital inputs		111111				
Quantity			8			
nput current		mA	Normally 4 at 24	V DC		
Limit value type 1			Low < 5V DC;Hig	h > 15V DC		
Input delay			High->Low < 0.2 Low -> High typ.			
Status display inputs		LED	yellow			
Digital semi-conductor outputs						
Quantity			4			
Dutput current		Α	Normally 0.5 at 2	4 V DC		
Short-circuit tripping current		Α	max. 1.2 over 3 m	ns		
Lamp load	R _{LL}	W	≦≤3			
Overload proof			yes, with diagno	stics		
Switching capacity				lization category	DC-13	
Potential isolation						
Inputs for SmartWire-DT			Yes			
			Yes			

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.	°C	С	-25
Operating ambient temperature max.	°C	С	55
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	Does not apply, since the entire switchgear needs to be evaluated.
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. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

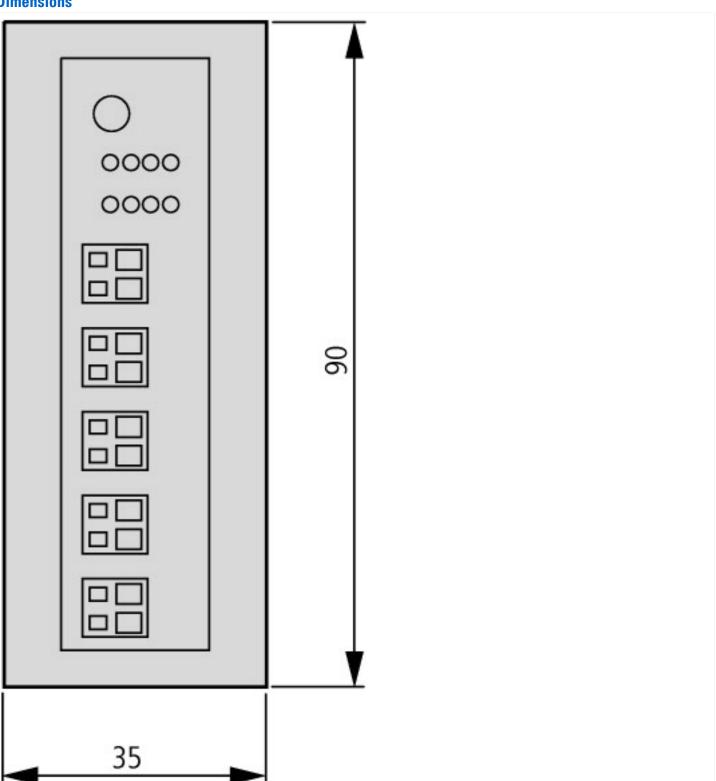
iecinnical data Ethiyi 7.0				
PLC's (EG000024) / Fieldbus, decentr. periphery - communication module (EC	001604)			
Electric engineering, automation, process control engineering / Control / Fiel (ecl@ss10.0.1-27-24-26-08 [BAA073013])	ld bus, decentralized periphe	neral / Field bus, decentralized peripheral - communications module		
Supply voltage AC 50 Hz	V	0 - 0		
Supply voltage AC 60 Hz	V	0 - 0		
Supply voltage DC	V	24 - 24		
Voltage type of supply voltage		DC		
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 SERCOS		No		
Supporting protocol for PROFINET IO		No		
Supporting protocol for PROFINET CBA		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		Yes		
Radio standard Bluetooth		No		
Radio standard WLAN 802.11		No		

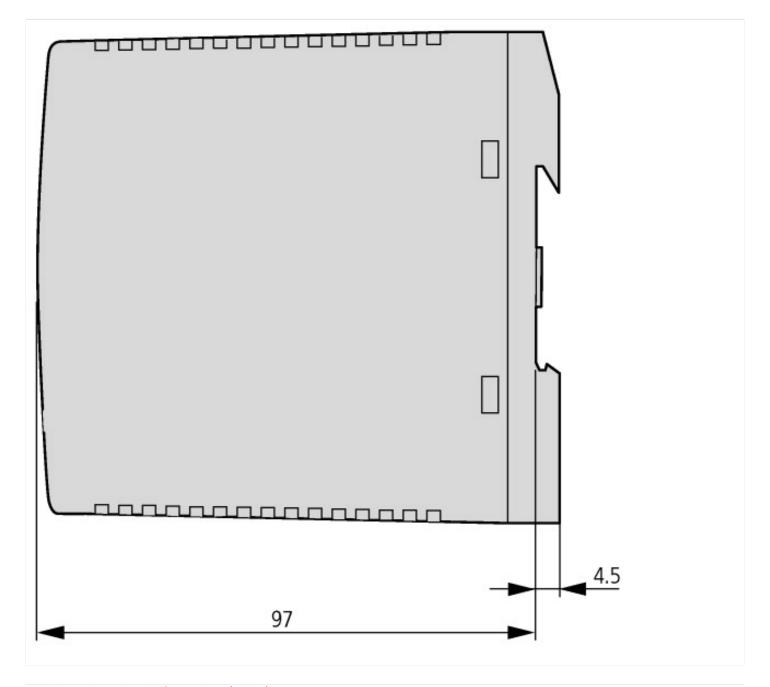
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
System accessory		Yes
Degree of protection (IP)		IP20
With potential separation		Yes
Fieldbus connection over separate bus coupler possible		Yes
Rail mounting possible		Yes
Wall mounting/direct mounting		Yes
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		В
SIL according to IEC 61508		None
Performance level acc. 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	35
Height	mm	102
Depth	mm	90

Approvals

North America Certification	Request filed for UL and CSA

Dimensions





Additional product information (links)

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IL05006005Z (AWA2723-2721) SmartWire-DT: NZ	ZM Interface
IL05006005Z (AWA2723-2721) SmartWire-DT: NZM Interface	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05006005Z2018_02.pdf
IL05006005Z (AWA2723-2721) SmartWire-DT: NZM Interface	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05006005Z2021_01.pdf
IL05006005Z SmartWire-DT: NZM Interface	
IL05006005Z SmartWire-DT: NZM Interface	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05006005Z2018_02.pdf
IL05006005Z SmartWire-DT: NZM Interface	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05006005Z2021_01.pdf
MN05006001Z (AWB2723-1613) SWD modules	
MN05006001Z (AWB2723-1613) SWD-Module - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf
MN05006001Z (AWB2723-1613) SWD modules - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf
MN05006001Z (AWB2723-1613) udente SWD - italiano	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf