



135530
NZM-XSWD-704

- Overview
- Specifications
- Resources



Delivery program

Technical data

Design verification as
per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

DELIVERY PROGRAM

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 NZN...-XMC-S0.

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 NO, 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

Standards

IEC/EN 61131-2

EN 50178

Approvals

shipping classification

BV

LRS

Approvals



Dimensions (W x H x D)
35 x 90 x 101 mm

Weight
0.1 kg

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
Relative humidity, non-condensing (IEC/EN 60068-
2-30)
5 - 95 %

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN 50178, VBG 4)
IP20

Vibrations (IEC/EN 61131-2:2008)
Constant amplitude 3,5 mm
5 - 8.4 Hz

Vibrations (IEC/EN 61131-2:2008)
Constant acceleration 1 g
8.4 - 150 Hz

Mechanical shock resistance (IEC/EN 60068-2-27)
semi-sinusoidal 15 g/11 ms
9 Impacts

Drop to IEC/EN 60068-2-31 [Drop height]
50 mm

Free fall, packaged (IEC/EN 60068-2-32)
0.3 m

Electromagnetic compatibility (EMC)

Overvoltage category
II

Pollution degree
2

Electrostatic discharge (IEC/EN 61131-2:2008)
Air discharge (Level 3)
8 kV

Electrostatic discharge (IEC/EN 61131-2:2008)
Contact discharge (Level 2)
4 kV

Electromagnetic fields (IEC/EN 61131-2:2008)
80 - 1000 MHz
10 V/m

Electromagnetic fields (IEC/EN 61131-2:2008)
1.4 - 2 GHz
3 V/m

Electromagnetic fields (IEC/EN 61131-2:2008)
2 - 2.7 GHz
1 V/m

Radio interference suppression (SmartWire-DT)
EN 55011 Class A

Burst (IEC/EN 61131-2:2008, Level 3)
Supply cable
2 kV

Burst (IEC/EN 61131-2:2008, Level 3)
Signal lines
1 kV

Burst (IEC/EN 61131-2:2008, Level 3)
SmartWire-DT cables
1 kV

Radiated RFI (IEC/EN 61131-2:2008, Level 3)
10 V

SmartWire-DT network

Station type
SmartWire-DT slave

Setting the baud rate
automatic

Status SmartWire-DT
Green LED

Connection
Plug, 8-pole
Connection plug: External device plug SWD4-
8SF2-5

Current consumption (15 V SWD supply)

Electricity consumption	Bus	AUX 24 V	AUX 24 V
		With active remote operator	with remote operator inactive
	mA	mA	mA
NZM-XSWD- 704	35	300	100

Connection supply and I/O

Terminal for I/O sensor
Connection type
Push in terminals

Terminal for I/O sensor
Solid
0.2 - 1.5 (AWG 24 - 16) mm²

Terminal for I/O sensor
Flexible with ferrule
0.25 - 1.5 mm²

Digital inputs

Quantity
8

Input current
Normally 4 at 24 V DC mA

Limit value type 1
Low < 5V DC; High > 15V DC

Input delay
High->Low < 0.2 ms
Low -> High typ. < 0,2 ms

Status display inputs
yellow LED

Digital semi-conductor outputs

Quantity
4

Output current
Normally 0.5 at 24 V DC A

Short-circuit tripping current
max. 1.2 over 3 ms A

Lamp load [R_L]
 $\square \leq 3 \text{ W}$

Overload proof
yes, with diagnostics

Switching capacity
EN 60947-5-1 utilization category DC-13

Potential isolation

Inputs for SmartWire-DT
Yes

Outputs to SmartWire-DT
Yes

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+55 °C

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 Strength of materials and parts
10.2.3.1 Verification of thermal stability of
enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating
materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
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 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.

10.2 Strength of materials and parts

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts

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 Insulation properties

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties

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

PLCs (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ec1@ss10.0.1-27-24-26-08 [BAA073013])

Supply voltage AC 50 Hz

0 - 0 V

Supply voltage AC 60 Hz

0 - 0 V

Supply voltage DC

24 - 24 V

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 PROFI-safe
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
B

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
35 mm

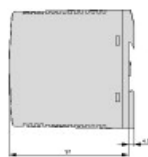
Height
102 mm

Depth
90 mm

APPROVALS

North America Certification
Request filed for UL and CSA

DIMENSIONS



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