

Software description LON bus

Summary

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SCPTdelayTime

Format SNVT_time_sec

Wiper function. When nviValue_1..4 is set and the preset time is over the relay changes its state. In the manual mode the wiper function is deactivated.

Valid values: 0 wiper function deactivated (factory setting)
1 ... 6553 s

BTR Object

nviBTR

Format SNVT_state

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1. Is only active if UCPTBTR = ST_ON.

Bit0 ... Bit8 not used

Bit9 with automatic mode in the system = 1
with manual mode in the system = 0

Bit10 = 1 relay 2 activated
= 0 relay 2 deactivated (horn)

Bit11 = 1 relay 1 activated
= 0 relay 1 deactivated (error signal)

Bit12 = 1 relay 3 activated
= 0 relay 3 deactivated (maintenance signal)

Bit13 = 1 relay 4 activated
= 0 relay 4 deactivated (unlocking)

Bit14 not used

Bit15 not used

nvoBTR

Format SNVT_state

Feedback to nviBTR. The value of nviBTR is passed on.

UCPTBTR

Format SNVT_lev_disc

UCP_Type_18

Activation of BTR Object.

UCPTBTR = ST_ON: nviBTR is used.
Relay contact 41-44 is closed for 1 s in case of a Reset.
(unlocking)

UCPTBTR = ST_OFF: nviBTR is not used.

nvoBTR

Feedback to nviBTR. The value of nviBTR is passed on.

Format SNVT_state

UCPTBTR

Activation of the BTR Object.

Format SNVT_lev_disc

UCP_Type_18

UCPTBTR = ST_ON:

nviBTR is used.

Relay contact 41-44 is closed for 1 s in case of a Reset.
(unlocking)

UCPTBTR = ST_OFF:

nviBTR is not used.

Virtual Function Block

nvoln_state

Status of inputs.

Assignment:

nvoln_state.bit0 = input 1...bit3 = input 4

Contact closed

Contact open

Format SNVT_state

nvoln_state.bit[0...3] = 1

nvoln_state.bit[0...3] = 0

Virtual Function Block

nvoln_state

Status of inputs

Assignment:

nvoln_state.bit0 = input 1...bit9 = input 10

Contact closed

Contact open

Format SNVT_state

nvoln_state.bit[0...9] = 1

nvoln_state.bit[0...9] = 0

UtilityMeter_1 - 4 Objects LonMark Profil 2201-10 Utility Meter.

nviHistTime **Format SNVT_time_stamp**

With the indication of this time stamp a value rounded down to the next period is requested that has to be read by the network output variable nvoHistVal. If this value is not available, the value is provided with the next earlier time stamp.

The configuration attribute SCPTtimePeriod defines this period. nvoHistVal restores the standard value after one minute. This is the value of the first day of the previous month at midnight (e.g. 1.3.2007 00:00).

500 values are stored for each channel.

Format: year/month/day
hour:minute:second

Example: 2007/3/22 12:7:0

nvoMeterVal **Format SNVT_reg_val_ts**

The value is edited as per the information contained in SCPTpulseValue and SCPTbaseValue and updated in the network in accordance with the configuration attributes SCPTsndDelta, SCPTmaxSendTime and SCPTminSendTime.

Format: value unit decimal places status
register status time stamp

Example: 0 RVU_KWH 2 0 0 0/0/0 0:0:0

0 = value

RVU_KWH = unit

2 = decimal places

0 = status

0 = ok

1 = time has changed during period

2 = failure in the system or reset

4 = voltage breakdown within the period

8 = illegal value

0 = register status 0 = inactive 1 = active

0/0/0 0:0:0 = time stamp

Example: 10323 RVU_KWH 2 0 1 2007/3/22 12:37:55

Resulting value = 103.23 kWh

nvoHistVal

Format SNVT_reg_val_ts

This variable can query either the requested value or the historical standard value. The value is prepared in accordance with the information contained in the variables SCPTpulseValue und SCPTbaseValue.

See also variable nviHistTime.

Format: value unit decimal places status
register status time stamp

Example: 0 RVU_KWH 2 0 0 0/0/0 0:0:0
0 value

RVU_KWH = unit
2 = decimal places
0 = status

0 = ok
1 = time has changed during period
2 = failure in the system or reset
4 = voltage breakdown within the period
8 = illegal value

0 = register status 0 = inactive 1 = active
0/0/0 0:0:0 = time stamp

Example: 8323 RVU_KWH 2 0 1 2007/3/22 12:28:0

SCPTlocation

Format SNVT_str_asc

Allows indication of an identifier with 30 characters.

SCPTnumDigits

Format unsigned short

Provides the number of digits of the meter. This attribute keeps the indication the same even in case of an overrun of the meter.

Format: 0
Preset value: 7, Example: 12345,67

The meter readout is reset to zero in case of changes.

ConstSCPTobjMajVer

Format unsigned short

This number is increased by one if the network interface of the functional block changes.

Preset value: 2

ConstSCPTobjMinVer

Format unsigned short

This number is increased by one if the network interface remains unchanged but the functional block shows a different behavior.

Preset value: 1

SCPTpulseValue**Format SNVT_mul_div**

Is needed to prepare a pulse value in a meter readout.

Format:

Multiplier Divisor

Preset value: 1 1

$NvoMeterVal = (\text{"number of pulses"} * \text{"multiplier"} * 10^{\text{"nr_decimals"}}) / \text{"Divisor"}$

Example:

1 100 --> $33 * 1 * 10^2 / 100 = 33$

The meter readout is reset to zero in case of changes.

SCPTbaseValue**Format SNVT_reg_val**

Regulates an initial meter readout.

Format:

Value unit decimal places

Example:

123 RVU_KWH 2

123: numerical value of the initial meter readout

RVU_KWH: unit kWh

2: decimal places

Resulting initial meter readout: 1.23 kWh.

Unit and decimal places have to comply with the unit and decimal places of the variable SCPTsndDelta otherwise no values are issued! The meter readout is reset to zero in case of changes

SCPTinvrtOut**Format SNVT_lev_disc**

Defines the active edge for metering.

Format:

ON/OFF

ST_OFF: no inversion High ->Low

ST_ON: inversion activated Low -> High

Preset value = ST_OFF

nvoMeterVal::SCPTsndDelta Format SNVT_reg_val_ts

nvoMeterVal is only updated when the delta value in the network is reached.

Format:

0 RVU_KWH 2 0 0 0/0/0 0:0:0

Preset value = 0 RVU_KWH 2 0 0 0/0/0 0:0:0

0: = Delta (default = 0 no automatic updating)

RVU_KWH: = unit

2: = decimal places

The other fields are not used (status, time stamp).

Unit and decimal places have to comply with unit and decimal places of the variable SCPTbaseValue otherwise no values are issued!

SCPTInvertOut **Format SNVT_lev_disc**

Inversion of the input signals.

SCPTInvertOut = ST_ON input contact open

nvoIn_switch und nvoIn_state = is set

SCPTInvertOut = ST_OFF input contact closed

nvoIn_switch und nvoIn_state = is set

R1...2 Object

nviValue1...2 **Format SNVT_switch**

Switching of the outputs

nviValue1...2 = 100.0 1 relay activated

nviValue1...2 = 0.0 0 relay deactivated

nvoFeedback1..2 **Format SNVT_switch**

The output variables are issued after a change of the relay state.

nvoFeedback1...2 = 100.0 1 relay activated

nvoFeedback1...2 = 0.0 0 relay deactivated

nvoManualFb1..2 **Format SNVT_switch**

Feedback of manual mode

nvoManualFb1...2 = 100.0 1 manual switch on automatic

nvoManualFb1...2 = 0.0 0 manual switch on "1" or "0"

nvoManualFb1..2_c **Format SNVT_count**

Switch position.

nvoManualFb1...2_c = 0 position 0

nvoManualFb1...2_c = 1 position 1

nvoManualFb1...2_c = 3 automatic

SCPTdelayTime **Format SNVT_time_sec**

Wiper function. With a preset time and nviValue1..2 = 100.0 1 the respective relay releases automatically. It is only reactivated if nviValue1..2 is set from 0.0 0 to 100.0 1. The wiper function is deactivated during manual operation.

Valid values: 0 wiper function deactivated (factory setting)

1 ... 6553 s

SCPTInvertOut **Format SNVT_lev_disc**

Inversion of input signals

SCPTInvertOut = ST_ON input contact open

nvoln_switch und nvoln_state = is set

SCPTInvertOut = ST_OFF input contact closed

nvoln_switch und nvoln_state = is set

Relay Object

nviValue1...2 **Format SNVT_switch**

Switching of the outputs

nviValue1...2 = 100.0 1 relay activated

nviValue1...2 = 0.0 0 relay deactivated

nvoFeedback1..2 **Format SNVT_switch**

The output variables are issued after a change of the relay state.

nvoFeedback1...2 = 100.0 1 relay activated

nvoFeedback1...2 = 0.0 0 relay deactivated

SCPTdelayTime **Format SNVT_time_sec**

Wiper function. With a preset time and nviValue1..2 = 100.0 1 the respective relay releases automatically. It is only reactivated if nviValue1..2 is set from 0.0 0 to 100.0 1. The wiper function is deactivated during manual operation.

Valid values: 0 wiper function deactivated (factory setting)

1 .. 6553 s

DigitalOut Object

nviDOut1...2 **Format SNVT_switch**

Switching of the outputs

nviDOut1...2 = 100.0 1 digital output activated

nviDOut1...2 = 0.0 0 digital output deactivated

nvoFeedback1..2 **Format SNVT_switch**

The output variables are issued after a change of the states of the digital outputs.

nvoDOut1...2 = 100.0 1 digital output activated

nvoDOut1...2 = 0.0 0 digital output deactivated

SCPTdelayTime **Format SNVT_time_sec**

Wiper function. With a preset time and nviValue1..2 = 100.0 1 the respective relay releases automatically. It is only reactivated if nviValue1..2 is set from 0.0 0 to 100.0 1. The wiper function is deactivated during manual operation

Valid values: 0 wiper function deactivated (factory setting)

1 ... 6553 s

Channel1 Object

nviOutput1ST1...2

Switching of the outputs

nviOutput1ST1 = x 1

nviOutput1ST2 = x 1

nviOutput1ST1 = x 0

nviOutput1ST2 = x 0

nviOutput1c

nviOutput1c = 0

nviOutput1c = 1

nviOutput1c = 2

nvoOutput1ST1...2Fb

State signal of the relays

nvoOutput1ST1Fb = 0.0 0

nvoOutput1ST1Fb = 100.0 1

nvoOutput1ST2Fb = 0.0 0

nvoOutput1ST2Fb = 100.0 1

nvoOutput1c

Feedback of nviOutput1c

nvoManualFb1

Feedback of manual mode

nvoManualFb1 = 100,0 1

nvoManualFb1 = 0,0 0

nvoManualFb1c

The values reflect the current switch position.

nvoManualFb1c = 0

nvoManualFb1c = 1

nvoManualFb1c = 2

nvoManualFb1c = 3

UCPTModus

Order of switch positions

UCPTModus = 0

UCPTModus = 1

Format SNVT_switch

relay contact 11-14 closed

relay contact 11-24 closed

relay contact 11-14 open

relay contact 11-24 open

Format SNVT_count

relay contact 11-14-24 open

relay contact 11-14 closed

relay contact 11-24 closed

Format SNVT_switch

relay contact 11-14 open

relay contact 11-14 closed

relay contact 11-24 open

relay contact 11-24 closed

Format SNVT_count

Format SNVT_switch

Manual switch on automatic

Manual switch on manual control

Format SNVT_count

position 0

position 1

position 2

position automatic

Format SNVT_count

order 0 - 1 - 2 (factory setting)

order 1 - 0 - 2

UCP_Type_24

Channel2 Object

nviOutput2ST1...2

Switching of the outputs

nviOutput2ST1 = x 1

nviOutput2ST2 = x 1

nviOutput2ST1 = x 0

nviOutput2ST2 = x 0

nviOutput2c

nviOutput2c = 0

nviOutput2c = 1

nviOutput2c = 2

nvoOutput2ST1...2Fb

Signal of relay states

nvoOutput2ST1Fb = 0.0 0

nvoOutput2ST1Fb = 100.0 1

nvoOutput2ST2Fb = 0.0 0

nvoOutput2ST2Fb = 100.0 1

nvoOutput2c

Feedback of nviOutput2c

nvoManualFb2

Feedback of manual mode

nvoManualFb2 = 100.0 1

nvoManualFb2 = 0.0 0

nvoManualFb2c

The values reflect the current switch position.

nvoManualFb2c = 0

nvoManualFb2c = 1

nvoManualFb2c = 2

nvoManualFb2c = 3

UCPTModus

Order of switch positions

UCPTModus = 0

UCPTModus = 1

Format SNVT_switch

relay contact 31-34 closed

relay contact 31-44 closed

relay contact 31-34 open

relay contact 31-44 open

Format SNVT_count

relay contact 31-34-44 open

relay contact 31-34 closed

relay contact 31-44 closed

Format SNVT_switch

relay contact 31-34 open

relay contact 31-34 closed

relay contact 31-44 open

relay contact 31-44 closed

Format SNVT_count

Format SNVT_switch

manual switch on automatic

manual switch on manual control

Format SNVT_count

position 0

position 1

position 2

position automatic

Format SNVT_count

order 0 - 1 - 2 (factory setting)

order 1 - 0 - 2

UCP_Type_24

DigitalOut Object:**nviDOut1...2**

Switching of digital outputs

nviDOut1...2 = x 1

nviDOut1...2 = x 0

Format SNVT_switch

pair of contacts S1-S1 or S2-S2 closed

pair of contacts S1-S1 or S2-S2 open

nvoDOut1..2Fb

State signal of the digital outputs

nviDOut1...2 = x 1

nviDOut1...2 = x 0

Format SNVT_switch

pair of contacts S1-S1 or S2-S2 closed

pair of contacts S1-S1 or S2-S2 open

nvoManualFb_1...4**Format SNVT_switch**

Transmits feedback of manual mode

Potentiometer on left stop = automatic 100.0 1

Potentiometer not on left stop = manual 0.0 0

nviAnalog::SCPTmaxSetpoint**Format SNVT_lev_percent**

Upper range limit of the output in percent. When entering 85 % for example and a value of 100 % in the input variable, the output adopts a voltage of 8.5 V

Valid values: 0...100 % (factory setting 100)

nviAnalog::SCPTminSetpoint**Format SNVT_lev_percent**

Lower range limit of the output in percent. When entering 15 % for example and a value of 100 % in the input variable, the output adopts a voltage of 1.5 V. The total range results of both settings. With maxSetpoint = 85 and minSetpoint = 15 and an input value between 0 to 100 % a voltage between 1.5 to 8.5 results at the output

Valid values: 0...100 % (factory setting 0)

nviFixedValue::SCPTmaxSetpoint**Format SNVT_lev_percent**

Preset percentage when using FixedValue_1...4.

Valid values: 0...100 % (factory setting 100)

BTR Object**nviBTR****Format SNVT_state**

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

nvoBTR**Format SNVT_state**

Feedback to nviBTR. Bit 9 changes from 1 to 0 if the module is in manual mode, otherwise the value of nviBTR transmitted.

SCPTmaxSetpoint **Format SNVT_lev_percent**

Threshold to switch nvoAlarm

Factory setting: 100 %

VoltageIn1...4 Objects**nvoV_1...4** **Format SNVT_lev_percent**

Voltages in the range of 0 to 10.0 volt DC are measured at the inputs and issued to the LON bus.

nvoAlarm_1...4 **Format SNVT switch**

The output variable changes from 0.0 0 to 100.0 1, if the value set in SCPTmaxSetpoint is exceeded.

SCPTsndDelta **Format SNVT_lev_percent**

The output variable is only issued if the preset difference is either overrun or underrun.

Factory setting: 0 %

SCPTminSendTime **Format SNVT_time_sec**

Fixed interval between two voltage values.

Valid values 0 timer function deactivated
1 ... 6553 s (factory setting 1 s)**SCPTmaxSetpoint** **Format SNVT_lev_percent**

Threshold to switch nvoAlarm

Factory setting: 100 %

SCPTmaxSetpoint**Format SNVT_lev_percent**

Preset value for nviAOutFixed1...2.

If a value is entered in SCPTmaxSetpoint and if nviAOut[1...2] exceeds this value, the digital output is activated. If nviAOut[1...2] underruns this value, the digital output turns off with a hysteresis of 5 %.

If SCPTmaxSetpoint = 0 the digital output [1..2] responds only to nviDOut[1..2].

Valid values: 0 ... 100 % (factory setting 0 %)

AnalogIn Object**nvoAln1...2****Format SNVT_lev_percent**

Voltages between 0 and 10.0 volt DC are measured at the inputs and issued to the LON bus.

SCPTsndDelta**Format SNVT_lev_percent**

The voltage values are only transmitted when a defined voltage change is overridden or underrun.

Example:

SCPTsndDelta = 5 %

Transmission takes place after a change of 0.5 volt.

Valid values:

0 ... 100 % (factory setting 0 %)

SCPTminSendTime**Format SNVT_time_sec**

Assured transmission pause between two voltage values.

Valid values:

0 timer function deactivated ...

1 ... 6553 timer times in seconds (factory setting 1 s)

SCPTminDeltaTemp **Format SNVT_temp_p**

The output variables are only issued after a preset temperature difference (factory setting 0.5 Kelvin).

UCPTHyst **Format SNVT_temp_p** **UCP_Type_4**

Setting of the hysteresis after which the output nvoHigh and nvoLow switch over (factory setting 2 Kelvin).

DO1_4 Objects:

nviValue_1...4 **Format SNVT_switch**

The respective channels are activated in the switching mode by the variable nviValue_1...4 at a value having a value portion greater than 0 and a state portion of 1; in all other cases the channels are deactivated.

nviPercent_1...4 **Format SNVT_lev_percent**

In the "clocking" mode the pulse/pause ratio are changed by variables nviPercent_1...4 during the time period that is set in SCPTdriveTime.

Example SCPTdriveTime = 10 s, nviPercent_1 = 60 %
 --> pulse = 6 s / pause = 4 s

nvoFeedback_1...4 **Format SNVT_switch**

Transmits the feedback value of the object.

Automatic mode ON: xxx.x 1
 Automatic mode OFF: xxx.x 0
 Manual mode ON: 100.0 -1
 Manual mode OFF: 0.0 -1

SCPTdriveTime **Format SNVT_time_sec**

Total duration of one period (pulse - pause). The ratio is defined by nviPercent_1..4.

Valid values: 0 function deactivated (factory setting)
 1 ... 6553 s

nvoWischer**Format SNVT_switch**

If the unlocking button is pressed nvoWischer adopts the value 100.0 1 for 5 seconds and then changes back to 0.0 0.

Taster Objekt (Button Object)**nviTast[1...3]****Format SNVT_switch**

At the group indicator module nviTast1 can be used externally for acknowledgement, nviTast2 for unlocking and nviTast3 for lamp testing

nviTast1 = 100.0 1 nvoBTR.bit14 changes to 1

nviTast2 = 100.0 1 nvoBTR.bit13 changes to 1

nviTast3 = 100.0 1 nvoBTR.bit15 changes to 1

nvoTast[1...3]**Format SNVT_switch**

Feedback to nviTast[1...3].

The value of nviTast[1...3] is passed on or nvoTast[1...3] adopts the value 100.0 1 when pressing the respective button.

BTR Object**nviBTR****Format SNVT_state**

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8	not used
Bit9	with automatic mode in the system = 1 with manual mode in the system = 0
Bit10	new error signal in the system = 1 no or acknowledged error in the system = 0
Bit11	new error signal in the system = 1 no or unlocked error in the system = 0
Bit12	maintenance signal in the system = 1 no or acknowledged maintenance in the system = 0
Bit13	unlocking signal of LM1 is set to 1 by the unlocking button
Bit14	acknowledgement signal of LM1 is set to 1 by the acknowledgement button
Bit15	lamp test request of LM1 is set to 1 by the lamp test button

nvoBTR **Format SNVT_state**

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1.

Configuration variables

nciLEDan[0...3] **Format SNVT_switch**

Setting of state and color of each LED with nviLED[0...3] = 100.0 1.

Valid values:

nciLEDan[0...3].value = a + b + c + d
nciLEDan[0...3].state = 0

a - color	b - flashing	c - acknowledge	d - unlock
0,5 red	0 = no	0 = no	0 = no
1 yellow	4 = yes	16 = yes	32 = yes
1.5 green			

nciLEDAus[0...3] **Format SNVT_switch**

Setting of state and color of each LED with nviLED[0...3] = 0.0 0.

Valid values:

see nciLEDan[0...3]

Example

LED OFF nciLEDAus[0...3] = 0.0 0

Factory settings for nciLEDan[0...3] and nciLEDAus[0...3] are 0.0 0. With this, the module is configured as BTR group indicator module.

nciMinSendTime **Format SNVT_count**

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)
1 ... 60 timer time in seconds

BTR Object

nviBTR

Format SNVT_state

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8	not used
Bit9	with automatic mode in the system = 1 with manual mode in the system = 0
Bit10	new error signal in the system = 1 no or acknowledged error in the system = 0
Bit11	new error signal in the system = 1 no or unlocked error in the system = 0
Bit12	maintenance signal in the system = 1 no or acknowledged maintenance in the system = 0
Bit13	unlocking signal of LM1 is set to 1 by the unlocking button
Bit14	acknowledgement signal of LM1 is set to 1 by the acknowledgement button
Bit15	lamp test request of LM1 is set to 1 by the lamp test button

nvoBTR

Format SNVT_state

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1.

Configuration variables

nciLEDan[0...9]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...9] = 100.0 1.

Valid values:

nciLEDan[0...9].value = a + b + c + d

nciLEDan[0...9].state = 0

a - color	b - flashing	c - acknowledge	d - unlock
0,5 red	0 = no	0 = no	0 = no
1 yellow	4 = yes	16 = yes	32 = yes
1.5 green			

(Factory setting 52.5: LED red, flashing, to acknowledge and to unlock if nviLEDx is set)

nciLEDAus[0...9]**Format SNVT_switch**

Setting of state and color of each LED with nviLED[0...9] = 0.0 0.

Valid values:

see nciLEDan[0...9]

nciLEDAus[0...9] = 0.0 0 (factory setting LED OFF)

nciMinSendTime**Format SNVT_count**

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)

1 ... 60 timer time in seconds

In switch position 3 (3 o'clock)

nvoSOben[0] adopts the value 0.0 0
 nvoSOben[1] adopts the value 0.0 0
 nvoSOben[2] adopts the value 100.0 1

nvoHand1

Format SNVT_switch

(Manual operation feedback)

In switch position Automatic (11 o'clock) nvoHand1 has the value 100.0 1. In each other position it has the value 0.0 0.

K2 Object

nviSUnten[0...2]

Format SNVT_switch

(Lower switch)

With switch position Automatic (11 o'clock) the input variables nviSUnten[0...2] are directly passed on to nvoSUnten[0...2]. With each other position the nviSUnten[0...2] have no effect.

nvoSUnten[0...2]

Format SNVT_switch

In switch position Automatic (11 o'clock) the input variables nviSUnten[0...2] are directly passed on to nvoSUnten[0...2].

In switch position 1 (12 o'clock)

nvoSUnten[0] adopts the value 100.0 1
 nvoSUnten[1] adopts the value 0.0 0
 nvoSUnten[2] adopts the value 0.0 0

In switch position 2 (1 o'clock)

nvoSUnten[0] adopts the value 0.0 0
 nvoSUnten[1] adopts the value 100.0 1
 nvoSUnten[2] adopts the value 0.0 0

In switch position 3 (3 o'clock)

nvoSUnten[0] adopts the value 0.0 0
 nvoSUnten[1] adopts the value 0.0 0
 nvoSUnten[2] adopts the value 100.0 1

nvoHand2

Format SNVT_switch

(Manual operation feedback)

In switch position Automatic (11 o'clock) nvoHand2 has the value 100.0 1. In each other position it has the value 0.0 0.

Extern Object

nviEM

Format SNVT_switch

Unlocking signal.

If nviEM adopts the value 100.0 1, the LS1 is unlocked and nvoBTR.Bit13 is set.

nviQM**Format SNVT_switch**

Acknowledgement signal

If nviQM adopts the value 100.0 1, the LS1 is acknowledged and nvoBTR.Bit14 is set.

nviLT**Format SNVT_switch**

Lamp test

If nviLT adopts the value 100.0 1, a lamp test is done at the LS1 and nvoBTR.Bit15 is set.

BTR Object**nviBTR****Format SNVT_state**

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8

not used

Bit9

with automatic mode in the system = 1

with manual mode in the system = 0

Bit10

new error signal in the system = 1

no or acknowledged error in the system = 0

Bit11

new error signal in the system = 1

no or unlocked error in the system = 0

Bit12

maintenance signal in the system = 1

no or acknowledged maintenance in the system = 0

Bit13

unlocking signal of LM1

is set to 1 by the unlocking button

Bit14

acknowledgement signal of LM1

is set to 1 by the acknowledgement button

Bit15

lamp test request of LM1

is set to 1 by the lamp test button

nvoBTR**Format SNVT_state**

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1

Configuration variables

nciLEDan[0...5]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...5] = 100.0 1.

Valid values:

nciLEDan[0...5].value = a + b + c + d

nciLEDan[0...5].state = 0

a - color	b - flashing	c - acknowledge	d - unlock
0,5 red	0 = no	0 = no	0 = no
1 yellow	4 = yes	16 = yes	32 = yes
1.5 green			

(Factory setting 52.5: LED red, flashing, to acknowledge and to unlock if nviLEDx is set)

nciLEDaus[0...5]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...5] = 0.0 0.

Valid values:

see nciLEDan[0...5]

nciLEDaus[0...5] = 0.0 0 (factory setting LED OFF)

nciMinSendTime

Format SNVT_count

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)

1 ... 60 timer time in seconds

BTR Object

nviBTR

Format SNVT_state

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8	not used
Bit9	with automatic mode in the system = 1 with manual mode in the system = 0
Bit10	new error signal in the system = 1 no or acknowledged error in the system = 0
Bit11	new error signal in the system = 1 no or unlocked error in the system = 0
Bit12	maintenance signal in the system = 1 no or acknowledged maintenance in the system = 0
Bit13	unlocking signal of LM1 is set to 1 by the unlocking button
Bit14	acknowledgement signal of LM1 is set to 1 by the acknowledgement button
Bit15	lamp test request of LM1 is set to 1 by the lamp test button

nvoBTR

Format SNVT_state

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1.

Configuration variables

nciLEDan[0...5]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...5] = 100.0 1.

Valid values:

nciLEDan[0...5].value = a + b + c + d

nciLEDan[0...5].state = 0

a - color	b - flashing	c - acknowledge	d - unlock
0,5 red	0 = no	0 = no	0 = no
1 yellow	4 = yes	16 = yes	32 = yes
1.5 green			

(Factory setting 52.5: LED red, flashing, to acknowledge and to unlock if nviLEDx is set)

nciLEDaus[0...5]**Format SNVT_switch**

Setting of state and color of each LED with nviLED[0...5] = 0.0 0.

Valid values:

see nciLEDan[0...5]

nciLEDaus[0...5] = 0.0 0 (factory setting LED OFF)

nciMinSendTime**Format SNVT_count**

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)

1 ... 60 timer time in seconds

nviQM**Format SNVT_switch**

Acknowledgement signal

If nviQM adopts the value 100.0 1, the LT2 is acknowledged and nvoBTR.Bit14 is set.

nviLT**Format SNVT_switch**

Lamp test

If nviLT adopts the value 100.0 1, a lamp test is done at the LT2 and nvoBTR.Bit15 is set.

BTR Object**nviBTR****Format SNVT_state**

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8

not used

Bit9

with automatic mode in the system = 1

with manual mode in the system = 0

Bit10

new error signal in the system = 1

no or acknowledged error in the system = 0

Bit11

new error signal in the system = 1

no or unlocked error in the system = 0

Bit12

maintenance signal in the system = 1

no or acknowledged maintenance in the system = 0

Bit13

unlocking signal of LM1

is set to 1 by the unlocking button

Bit14

acknowledgement signal of LM1

is set to 1 by the acknowledgement button

Bit15

lamp test request of LM1

is set to 1 by the lamp test button

nvoBTR**Format SNVT_state**

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1.

Configuration variables

nciLEDan[0...3]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...3] = 100.0 1.

Valid values:

nciLEDan[0...3].value = a + b + c + d

nciLEDan[0...3].state = 0

a - color	b - flashing	c - acknowledge	d - unlock
0,5 red	0 = no	0 = no	0 = no
1 yellow	4 = yes	16 = yes	32 = yes
1.5 green			

(Factory setting 52.5: LED red, flashing, to acknowledge and to unlock if nviLEDx is set)

nciLEDaus[0...3]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...3] = 0.0 0.

Valid values:

see nciLEDan[0...3]

nciLEDaus[0...3] = 0.0 0 (factory setting LED OFF)

nciMinSendTime

Format SNVT_count

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)

1 ... 60 timer time in seconds

nviQM**Format SNVT_switch**

Acknowledgement signal

If nviQM adopts the value 100.0 1, the LT3 is acknowledged and nvoBTR.Bit14 is set.

nviLT**Format SNVT_switch**

Lamp test

If nviLT adopts the value 100.0 1, a lamp test is done at the LT3 and nvoBTR.Bit15 is set.

BTR Object**nviBTR****Format SNVT_state**

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8

not used

Bit9

with automatic mode in the system = 1

with manual mode in the system = 0

Bit10

new error signal in the system = 1

no or acknowledged error in the system = 0

Bit11

new error signal in the system = 1

no or unlocked error in the system = 0

Bit12

maintenance signal in the system = 1

no or acknowledged maintenance in the system = 0

Bit13

unlocking signal of LM1

is set to 1 by the unlocking button

Bit14

acknowledgement signal of LM1

is set to 1 by the acknowledgement button

Bit15

lamp test request of LM1

is set to 1 by the lamp test button

nvoBTR**Format SNVT_state**

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1.

Configuration variables

nciLEDan[0...7]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...7] = 100.0 1.

Valid values:

nciLEDan[0...7].value = a + b + c + d

nciLEDan[0...7].state = 0

a - color	b - flashing	c - acknowledge	d - unlock
0,5 red	0 = no	0 = no	0 = no
1 yellow	4 = yes	16 = yes	32 = yes
1.5 green			

(Factory setting 52.5: LED red, flashing, to acknowledge and to unlock if nviLEDx is set)

nciLEDaus[0...7]

Format SNVT_switch

Setting of state and color of each LED with nviLED[0...7] = 0.0 0.

Valid values:

see nciLEDan[0...7]

nciLEDaus[0...7] = 0.0 0 (factory setting LED OFF)

nciMinSendTime

Format SNVT_count

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)

1 ... 60 timer time in seconds

nvoHAUnten

Format SNVT_lev_percent

Function: Feedback to nviBarUnten if the switch is on "A" (11 o'clock).

The value of nviHAUnten is passed on. nvoHAUnten changes to 0, if the switch is on "0" (12 o'clock). The value of nvoHAUnten corresponds to the position of the potentiometer if the switch is on "H" (13 o'clock).

nvoHand2

Format SNVT_switch

Function: If the switch is on "A" (11 o'clock) nvoHand2 issues 100.0 1.

In each other position it is 0.0 0.

Extern Object

nviBlinkenOben

Format SNVT_switch

Flashing of the upper bar graph.

nviBlinkenOben = 100.0 1 The value of nviBarOben is flashing. This indicates that this value is an analog fixed value.

nviBlinkenUnten

Format SNVT_switch

Flashing of the lower bar graph.

nviBlinkenUnten = 100.0 1 The value of nviBarUnten is flashing. This indicates that this value is an analog fixed value.

nviLT

Format SNVT_switch

Lamp test

If nviLT adopts the value 100.0 1, a lamp test is done at the LA1 and nvoBTR.Bit15 is set.

BTR Object

nviBTR

Format SNVT_state

System object for METZ CONNECT LON door installation modules for easy connection with the group indicator module LM1.

Bit0 ... Bit8	not used
Bit9	with automatic mode in the system = 1 with manual mode in the system = 0
Bit10	new error signal in the system = 1 no or acknowledged error in the system = 0
Bit11	new error signal in the system = 1 no or unlocked error in the system = 0
Bit12	maintenance signal in the system = 1 no or acknowledged maintenance in the system = 0
Bit13	unlocking signal of LM1 is set to 1 by the unlocking button
Bit14	acknowledgement signal of LM1 is set to 1 by the acknowledgement button
Bit15	lamp test request of LM1 is set to 1 by the lamp test button

nvoBTR**Format SNVT_state**

Feedback to nviBTR. The value of nviBTR is passed on.

If a LED, that is defined as maintenance signal (yellow LED requiring acknowledgement) is set with nviLED[x], nvoBTR Bit12 changes to 1.

If a LED, that is defined as error signal (flashing red LED requiring acknowledgment and unlocking) is set with nviLED[x], nvoBTR Bit10 and Bit11 change to 1.

Configuration variables**nciMinSendTime****Format SNVT_count**

All output variables nvo described above, except nvoWischer, are issued after a preset period of time even without a change of status. This causes the module to report periodically to the system.

Valid values:

0 timer function deactivated (factory setting)

1 ... 60 timer time in seconds