

BTRNETCOM

LON door installation modules

Description of the LonMark objects and network variables

LM2

LED Object

Closed Loop	Actor Object
LonMark (Dbject #4
nviLED[09]	nvoLED[09]
SNVT_switch	SNVT_switch
nviLEDs	nvoLEDs
SNVT_state	SNVT_state

Extern Object



BTR Object





LED Object

Node Object

The Node Object monitors and controls the functions of the different objects in the device. It supports the basic functions Object Status and Object Request required by LonMark.

Application Objects

The objects contain the functions for status visualization.

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nviLED[09] (index 2 11)			
SNVT type	SNVT_switch		
Function	switching of the LEDs		
nviLED[09] = 0.0 0	the LEDs adopt the status defined by nciLEDaus[09]		
nviLED[09] = 100.0 1	the LEDs adopt the status defined by nciLEDein[09]		
nvoLED[09] (index 12 21)			
SNVT type	SNVT_switch		
Function	feedback to nviLED[09], value of nviLED[09] is transmitted		
nviLEDs (index 22)			
SNVT type	SNVT_state		
Function	switching of the LEDs		
nvoLEDs (index 23)			
SNVT type	SNVT_state		
Function	feedback to nviLEDs		
Assignment	nvoLEDs.bit0 = LED1 nvoLEDs.bit9 = LED 10		
Extern Object (externe Mel	dungen)		
nviEM (unlock signal) (index 2	4)		
SNVT type	SNVT_switch		
Function	If nviEM gets value 100.0 1, the LM2 is unlocked and nvoBTR.bit13 is set.		
nviQM (acknowledgement signal) (index 25)			
SNVT type	SNVT_switch		
Function	If nviQM gets value 100.0 1, the LM2 is acknowledged and nvoBTR.bit14 is set.		
nviLT (lamp test) (index 26)			
SNVT type	SNVT_switch		
Function	If nviLT gets value 100.0 1, a lamp test is carried out at the LM2 and nvoBTR.bit15 is set.		
BTR Object			
nviBTR (index 27)			
SNVT type	SNVT state		
Function	System object for Logline LON door installation modules to provide simple connection to the annunciator module for signal collection LM1.		
Bit0 Bit8	not used		
Bit9	automatic operation in the system = 1; manual operation in the system = 0		
BITIO	system = 0		
Bit11	new failure signal in the system $= 1$; no or unlocked failure in the system $= 0$		
BITIZ	maintenance signal in the system = 1; no or acknowledged maintenance in the system = 0		
Bit13	unlocking signal of the LM1, is set to 1 by unlocking tact switch		
Bit14	acknowledgement signal of LM1; is set to 1 by the acknowledgement tact switch		
Bit15	request of the LM1 for lamp testing; is set to 1 by the lampt test tact switch		
nvoBTR (index 28)			
SNVT type	SNVT_state		
Function	reedback to nviBTR, value of nviBTR is transmitted. If a LED that is specified as maintenance signal (yellow LED requiring acknowledgement) is set by nviLED[x], nvoBTR Bit12 changes to 1. If a LED that is specified as failure signal (flashing red LED requiring acknow- ledgement and unlocking) is set by nviLED[x], nvoBTR Bit10 and Bit11 change to 1.		

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LM2

Configuration variables



Configuration Variables

nciMinSendTime (index 29)			
SNVT type	SNVT_count		
Function	All output variables nvo described above are issued even without a status change at the end of a preset period of time. Thus the device reports periodically to the system.		
Time settings	0 timer turned off 1 60 timer time in seconds (factory setting 0)		
nciLEDan[09] (index 30 39)			
SNVT type	SNVT_switch		
Function	Setting of status and colour of each LED by nviLED[09] = 100.0 1		
LED settings	nciLEDan[09].value = a + b + c + d nciLEDan[09].state = 0		

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

Examples see chart page 76.

nciLEDaus[0..9] (index 40 .. 49)

SNVT type	SNVT_switch
Function	Setting of status and colour of each LED by $nviLED[09] = 0.00$
LED settings	see nciLEDan[09]
	for example LED off nciLEDaus[09] = 0.0 0

Note:

The variables with index 29 to 38 are not annotated.

