LON door installation modules



LT3

door installation module, 24 V AC/DC

Logline[®]

Part Number

110 397 13

Dimensions - housing E19



Use

Tact switch and indicator module for 19" frames. Suited as manual operation level

in electrical cabinet doors or remote control panels

Functional description

In a LON installtion the different LEDs and the four tact switches are activated

and/or analysed by the network variables SNVT.

LON interface

transceiver FTT10A free topology neuron 3120, 4k EEPROM

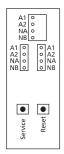
data format standard network variables (SNVT)

transmission rate 78 kBit/s

max. length (see page 7)

line topology 2700 m / 64 nodes free topology 500 m / 64 nodes cabling twisted pair

Wiring



Application software

XIF and NXE files are available as downloads under

www.btr-electronic-systems.de.

Technical Data

Terminal blocks

Housing dimensions b x h x w 40 x 128.7 x 35 mm (3HE; 8 TE)

weight 66 g mounting position any

mounting in 10" or 19" frames according to IEC 297-3

(accessories page 88 P/N 110361 or 110362)

material housing ABS

type of protection (DIN 40050) IP20

supply and bus 1.5 mm² pluggable

jumper plug (included to packing)

Supply operating voltage range 20 ... 28 V AC/DC current consumption 90 mA (AC)

38 mA (DC)

duty cycle 100 % recovery time 500 ms

Temperature range operation -5 °C ... +55 °C

-20 °C ... +70 °C

Protective circuitry operating voltage polarity reversal protection

Display 8 LEDs adjustable to red, green, yellow

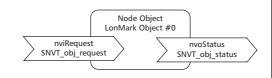
If a LED is adjusted to yellow for acknowledgment (17,0 0) the system will identify this as a maintenance signal and interprete it accordingly at the LM1 module (annunciator module for message collection). If a LED is adjusted to flash red, to acknowledge and to unlock (52,5 0) this is identified as a failure message and

interpreted accordingly at the LM1 module.

LON door installation module

Description of the LonMark objects and network variables

LT3



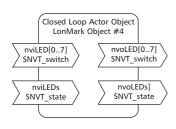
Node Object

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 tact switch analysis and status visualization.

LED Object



LED Object

nviLED[0..7] (Index 2 .. 9)

SNVT Type SNVT_switch

Function switching of ther LEDs

nviLED[0..7] = 0.0 0 the LEDs adopt the status defined by nciLEDaus[0..7] nviLED[0..7] = 100.0 1 the LEDs adopt the status defined by nciLEDan[0..7]

nvoLED[0..7] (Index 10 .. 17)

SNVT Type SNVT_switch

Function feedback to nviLED[0..7]

value of nviLED[0..7] is trnsmitted

nviLEDs (index 18)

SNVT Type SNVT state

Function switching of ther LEDs

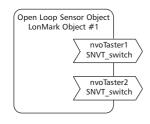
nvoLEDs (index 19)

SNVT Type SNVT_state

Function feedback to nviLEDs

Assignment nvoLEDs.bit0 = LED1 ... nvoLEDs.bit7 = LED 8

Taster Object



Taster Object

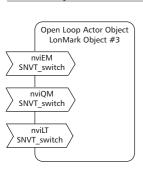
nvoTaster[1..2] (Index 20 .. 21)

SNVT Type SNVT_switch

Function nvoTaster[1..2] is 0.0 0 and changes to 100.0 1 when the tact switch

is pressed.

Extern Object



Extern Object (external signals)

nviEM (Index 22) (unlock signal)

SNVT Type SNVT_switch

Function If nviEM gets the value 100.0 1, the LT3 is unlocked and nvoBTR.bit13 is set.

nviQM (Index 23) (acknowledgement signal)

SNVT Type SNVT_switch

Function If nviQM gets the value 100.0 1, the LT3 is acknowledged and nvoBTR.bit14 is

set.

nviLT (Index 24) (lamp test)

SNVT Type SNVT_switch

Function If nviLT gets the value 100.0 1, a lamp test is carried out at the LT3 eand

nvoBTR.bit15 is set.

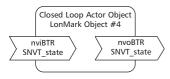


LON door installation module

Description of the LonMark objects and network variables

LT3

BTR Object



BTR Object

nviBTR (Index 25)

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
Bit10 new failure signal in the system = 1; no or acknowledged failure in the

system = 0

Bit11 new failure signal in the system = 1; no or unlocked failure in the system = 0
Bit12 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 request of the LM1 for lamp testing; is set to 1 by the lampt test tact switch

nvoBTR (Index 26)

SNVT-Typ SNVT_state

Function Feedback to nviBTR. Value of nviBTR is transmitted.

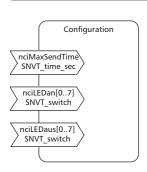
If a LED that is specified as maintenance signal (yellow LED requiring acknowledgement) is set by nviLED[x], nvoBTR Bit12 changes to 1.

If a LED that is specified as failure signal (flashing red LED requiring

acknowledgement and unlocking) is set by nviLED[x], nvoBTR Bit10 and Bit11

change to 1.

Configuration variables



Configuration variables

nciMaxSendTime (Index 27)

SNVT Type SNVT time sec

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.

Timer settings 0 Timer turned off

1 .. 65000 timer time in seconds (factory setting 0)

nciLEDan[0..7] (Index 28 .. 34)

SNVT Type SNVT switch

Function Setting of status and colour of each LED at nviLED[0..7] = 100.0 1.

LED settings ncileDan[0..7].value = a + b + c + d

ncileDan[0..7].state = 0

nciLEDaus[0..7] (Index 35 .. 42)

SNVT Type SNVT switch

Function Setting of status and colour of each LED at nviLED[0..7] = 0.0 0

LED settings see nciLEDan[0..7]

e.g. LED off nciLEDaus[0..7] = 0.00