LON door installation modules		ETR POUR	LA1 analogue data encoder, 24 V DC <u>Part number</u> 110 390 25	
Dimensions - housing E19	Use			
→ ³⁵	Indicator and set point encoder module for 19" frames. Suitable as indicator and manual control of analogue signals in cabinet doors or remote control panels.			
	Functional description		ignals in cabinet doors of remote control panels.	
Luz , Type	runctional description		graphs and potentiometers are activated and/or	
•		analysed by the network varia		
128,7	LON interface			
· · · · · · · · · · · · · · · · · · ·		transceiver neuron	FTT10A free topology 3120, 3k EEPROM downloadable	
		data format	standard network variables (SNVT)	
40		transmission rate max. length (see page 7)	78 kBit/s	
		line topology	2700 m / 64 nodes	
Wiring		free topology cabling	500 m / 64 nodes twisted pair	
	Application software	cubing		
	XIF and NXE files are available as downloads under www.btr-electronic-systems.de.			
Ub OV O OV NA o ONA NB O ONB	Technical data			
	Housing	dimensions b x h x w weight	40 x 128.7 x 35 mm (3HE; 8 TE)	
		mounting position	75 g any	
Reset		mounting	in 10" or 19" frames according to IEC 297-3 (accessories page 88 P/N 110361 or 110362)	
Service Reset		material	housing ABS	
		type of protection (DIN 40050	-	
	Terminal blocks	supply and bus	1.5 mm ² pluggable jumper plug (included to packing)	
	Supply	operating voltage range	24 V DC ±15 %	
		current consumption	50 mA	
		duty cycle recovery time	100 % 500 ms	
	Temperature range	operation storage	-5 ℃ +55 ℃ -20 ℃ +70 ℃	
	Protective circuitry	operating voltage	polarity reversal protection	
	Display	2 bar graphs		

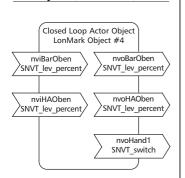


LON door installation module

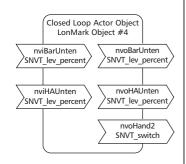
Description of the LonMark objects and network variables

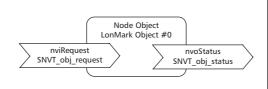
LA1

K1 Object (channel 1)



K2 Object (channel 2)





K1 Object (channel 1) nviBarOben (index 2)

nviBarOben = 0 .. 100 %

nvoBarOben (index 3)

nviHAOben (index 4)

nvoHAOben (index 5)

nvoHand1 (index 6)

K2 Object (channel 2)

nviBarUnten = 0 ... 100 %

nvoBarUnten (index 8)

nviHAUnten (index 9)

nvoHAUnten (index 10)

nvoHand2 (index 11)

nviBarUnten (index 7)

SNVT type

SNVT type

Function

SNVT type

Function

SNVT type

Function

Function

Function

Function

Function

Function

Function

Function

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 bar graph indication and set point encoder.

SNVT_lev_percent control of the upper bar graph The indicated values are rounded. The following LED lights up if value is x6.

SNVT_ lev_percent feedback to nviBarOben, value of nviBarOben is transmitted

SNVT_lev_percent automatic value of a control if the switch is set to "A" (11 o'clock) nviHAOben = 0 .. 100 %

SNVT_ lev_percent Feedback to nviBarOben, if the switch is set to "A" (11 o'clock). Value of nviHAOben is transmitted. nvoHAOben changes to 0, if the switch is set to "0" (12 o'clock). Value of nvoHAOben corresponds to the position of the potentiometer if the switch is set to "H" (1 o'clock).

SNVT_switch If the switch is set to "A" (11 o'clock) nvoHand1 issues 100.0 1. In every other position 0.0 0 is issued.

SNVT_lev_percent control of the lower bar graph The indicated values are rounded. The following LED lights up if value is x6.

SNVT_ lev_percent feedback to nviBarUnten, value of nviBarUnten is transmitted

SNVT_lev_percent automatic value of a control if the switch is set to "A" (11 o'clock) nviHAUnten = 0 .. 100 %

SNVT_ lev_percent Feedback to nviBarUnten, if the switch is set to "A" (11 o'clock). Value of nviHAUnten is transmitted. nvoHAUnten changes to 0, if the switch is set to "0" (12 o'clock). Value of nvoHAUnten corresponds to the position of the potentiometer if the switch is set to "H" (1 o'clock).

SNVT_switch If the switch is set on "A" (11 o'clock) nvoHand2 issues 100.0 1. 0.0 0 is issued in all other positions.



LON door installation module

Description of the LonMark objects and network variables

LA1

Object Ext

Extern Object	Extern Object		
	nviBlinkenOben (flashing) (index 12)		
Open Loop Actor Object	SNVT type	SNVT_switch	
LonMark Object #3	Function	flashing of the upper bar graph	
SNVT_switch	nviBlinkenOben = 100.0 1	Value of nviBarOben flashes, this indicates that this value is an analogue fixed set point.	
	nviBlinkenUnten (flashing) (index 13)		
	SNVT type	SNVT_switch	
	Function	flashing of the lower bar graph	
nviLT SNVT_switch	nviBlinkenUnten = 100.0 1	Value of nviBarUnten flashes, this indicates that this value is an analogue fixed set point.	
	nviLT (lamp test) (index 14)		
	SNVT type	SNVT switch	
	Function	If nviLT gets value 100.0 1, a lamp test is carried out at the LA1 and nvoBTR.bit15 is set.	
BTR Object	BTR Object		
	nviBTR (index 15)		
Closed Loop Actor Object LonMark Object #4	SNVT type	SNVT_state	
nviBTR 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 the 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 16)		
	SNVT type	SNVT_state	
	Function	feedback to nviBTR value of nviBTR is transmitted	
Configuration variables	Configuration variables		
	-		
Configuration	nciMinSendTime (index 17) SNVT type	SNVT count	
	Function	All output variables nvo described above are issued even without a status	
nciMinSendTime SNVT_count		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)	

