Luna 133 EIB brightness sensor

Luna 133 EIB	133 9 200

Contents

1 Functional characteristics

The Luna 133 EIB brightness sensor measures brightness and sends this value to the bus.

2 Technical data

Power supply:	Via bus voltage
Power draw:	< 150 mW
Connections:	1 bus connection (via the bus connection terminal)
Measuring ranges:	
Brightness:	1 ... 100000 Lux
Tolerance	+/–20 % or +/–5 Lux
Detection angle:	Horizontal +/- 60 ° Vertical –35 ° ... + 66.5 °
Safety class:	IP 54 in compliance with DIN EN 60 529 (In case of vertical installation with a mounted cover hood)
Permitted ambient temperature:	-25 °C ... +55 °C
Housing dimensions:	110 x 72 x 54 mm (H/W/D)
Weight:	Approx. 125 g

3 The “Lu133 V1.2” application program

3.1 Selection in the product database

Manufacturer	Theben AG
Product family	Physical sensors
Product type	Brightness
Program name	Lu 133 V1.2

The ETS database can be found on our website: http://www.theben.de

3.2 Parameter page

Table 1

Name	Description
Brightness	The send response for the measured brightness value

3.3 Communication object

3.3.1 Characteristics

Table 2

No.	Function	Object name	EIS type	Response
0	Physical value	Brightness value	2-byte EIS 5	Send

Table 3

Number of communication objects:	1
Number of group addresses:	10
Number of assignments:	10

3.3.2 Object description

- **Object 0 "Brightness value"**

Sends the current brightness value either if there is a change in brightness and/or cyclically depending on the configuration.

Note:
As a result of the restrictions due to EIS5, some values are rounded up or down, e.g. the value 10000 Lux can be displayed as either 9999.36 ($4FA1) or 10004.48 ($4FA2).

3.4 Parameters

3.4.1 Brightness

Table 4

Designation	Values	Meaning
Send brightness value in the event of a change in …	Not due to a change 10 %, but at least 1 lx 20 %, but at least 1 lx 30 %, but at least 1 lx 50 %, but at least 1 lx	Only send cyclically (if enabled) Send, if the value has changed by 10%, 20%, 30% or 50% since last sent; however, if a change of 10% equals to a change in brightness of < 1 lx, then values are sent from 1 lx onwards.
Send brightness value cyclically	Do not send cyclically Every minute Every 2 minutes Every 3 minutes Every 5 minutes Every 10 minutes Every 15 minutes Every 20 minutes Every 30 minutes Every 45 minutes Every 60 minutes	How often should the current brightness value be resent?