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luxCONTROL

DSI-SMART Programmer

DSI-SMART Programmer (SW Version 2.30)

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1. General Information

The DSI-SMART Programmer (SW Version 2.30) can be used to make parameter settings on the basicDIM ILD/DSI-SMART (PTM) or read out the currently stored parameters.

The DSI-SMART Programmer also offers additional functions when used in combination with the DSI-SMART PTM and basicDIM ILD:

- Monitoring of installation parameters such as the currently measured LUX value
- Remote control function (switch lighting on and off)
- Commissioning test

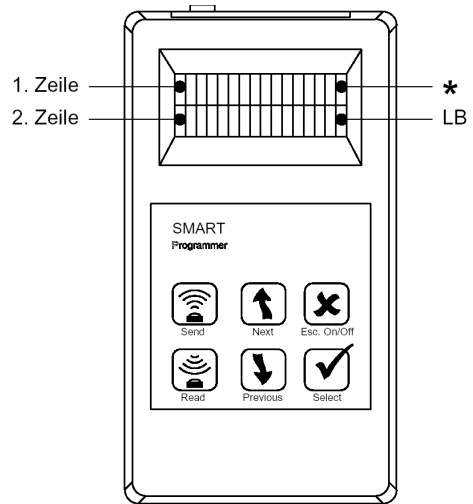


1.1 Overview of DSI-SMART Programmer

The DSI-SMART Programmer is menu-operated by using 6 buttons. The menu legends are in English.

Display:

The current menu item is shown on the first line of the LCD display. The lower line, the status bar, shows the possible settings for the menu item in question; the current status and any error messages are displayed on this line in the case of data transmission.



Control Keys:



Esc. On/Off

A short keypress switches the DSI-SMART Programmer on. A long keypress switches the device off. When the DSI-SMART Programmer is switched on, a short keypress causes the program to switch to the next highest menu item.



Select

Pressing the "Select" button selects the menu shown on the display.



Next



Previous

The "Up/Down" buttons are used to navigate between the various options for the selected menu item. Keeping the buttons depressed makes the device jump automatically from one item to the next.



Send

The "Send" button is used to transfer data to the DSI-SMART (PTM)/basicDIM ILD



Read

The "Read" button reads the current settings of the DSI-SMART (PTM)/basicDIM ILD into the DSI-SMART Programmer.

2. Programming the Main Parameters

2.1. Adjustable Parameters

The DSI-SMART (PTM)/basicDIM ILD provides the following parameters to be set:
 Values in parentheses denote factory parameter settings.

Parameter	Adjustment Range (factory setting)	Description
light level	1-100/max (70)	Selectable lighting control set point, 1-100 increments. “max” also makes it possible to set the control gear to full power. (DSI 255) “man” indicates whether the adjustment value was overwritten by the SET function of the SMART Controller.
time delay:	30s - 60min/con (20 min)	Delay time after the last detected movement The following values can be set: 30 seconds, 1, 2, 3, 5, 10, 15, 20, 30, 45 and 60 minutes and “continuous” (no switch-off)
if vacant	off/30 s - 60 min/con (off)	The “off” setting switches the luminaire off after the delay time has elapsed. If a time value is set, the luminaire dims to the “sec. level” parameter and only switches off after the previously set time has elapsed. The following values can be set: off, 30 seconds, 1, 2, 3, 5, 10, 15, 20, 30, 45 and 60 minutes and “continuous” (“never OFF” function)
sec. level ¹	1%-100% (1%)	Second light level to which luminaire dims after the delay time has elapsed. (in conjunction with the “if vacant” parameter)
P.I.R.	active/inactive/ off only (active)	With the “active” setting, the lighting is automatically switched on or off depending whether a person is present. With the “inactive” setting, the basicDIM ILD/DSI-SMART (PTM) can, in combination with continuous “time delay”, only be used for lighting control. With the “off only” setting, the lighting has to be switched on manually (momentary-action switch, remote control) but is switched off by the presence detector.
bright-out	yes/no (yes)	With the “yes” setting, the lighting switches off as soon as the light level exceeds 150% of the set point for longer than 10 minutes, for instance, if the room is adequately illuminated by sunlight. If the actual value falls below 100% of the set point, the lighting switches back on again. With the “no” setting, the lighting remains switched on (at the minimum dimming level) even if the room is adequately illuminated by sunlight and no artificial lighting is required.
Power up	on/off (on)	With the “on” setting, the luminaire switches on after a mains break. With the “off” setting, the luminaire does not switch on after a mains break. The presence detector becomes active again after 15 seconds.
10% start ²	on/off (on)	With “on”, the lighting is started at a dimming level of 10%. With “off”, the lighting is started at a dimming level of 1%.

¹ The DSI-SMART PTM and basicDIM ILD support the “sec. level” parameter.

² The “10% start” parameter is only supported by the DSI-SMART.




















Parameter	Adjustment range (factory setting)	Description
hold overwrite	on/off (off)	<p>If the light level is manually dimmed via a momentary-action switch or remote control, lighting control stops. The previously set dimming level retains its fixed value as long as lighting control is not activated by manual intervention (momentary-action switch or remote control). If there is no movement in the room in this state and the “time delay” has elapsed, the control unit stores the fixed dimming level.</p> <p>With the “off” setting, lighting control is restarted each time movement is detected.</p> <p>With the “on” setting, the control unit switches the luminaires back to the fixed dimming level each time movement is detected and lighting control remains stopped. With this setting, lighting control can be activated again via the remote control (Automatic button). If lighting control was active before repeated detection or if the lighting was switched off manually, the luminaires and lighting control are switched on after movement is detected in order to prevent people having to enter a dark room.</p>
PTM Set ³	on/off (off)	<p>With the “on” setting, it is possible to save the currently set light level as a lighting control set point by pressing the momentary-action switch twice shortly.</p> <p>With the “off” setting, this function is disabled.</p>
DALlorDSI ³	DSI/DALI DSI	<p>With the “DSI” setting, DSI interface mode is enabled.</p> <p>With the “DALI” setting, DALI interface mode in which DALI broadcast commands are sent is enabled.</p>
Offset Mode ⁴	fixed/converging (converging)	<p>This parameter specifies how the adjustable “Offset Value” of the basicDIM ILD behaves from channel 2 to channel 1 over the dimming range.</p> <p>With the “fixed” setting, the previously set “Offset Value” remains the same across the dimming range. (e.g. with an “Offset Value” of -30%, channel 2 remains at 70% when channel 1 has reached 100%).</p> <p>With the “converging” setting, the previously set “Offset Value” remains the same up to a specific dimming level and decreases the closer one gets to 100%. (e.g., with an “Offset Value” of -30%, the dimming level of channel 2 is 40% and that of channel 1 is 70%. but both channels simultaneously change to a dimming level of 100% if the lighting is dimmed up).</p>
Offset Value ⁴	0% to -70% (-30%)	<p>Adjustable brightness difference from channel 2 to channel 1 of the basicDIM ILD.</p> <p>The following values can be set: 0%, -10%, -20%, -30%, -40%, -50%, -60% and -70%</p>

³ The “PTM Set” and “DALlorDSI” parameters are supported by the DSI-SMART PTM from Version 1.1 onwards and by the basicDIM ILD and DSI-SMART Programmer from Version 2.01 onwards.

⁴ The “Offset Mode” and “Offset Value” parameters are supported by the basicDIM ILD and DSI-SMART Programmer from Version 2.30 onwards.









2.2 Programming the Entire Parameter List

All parameters must be newly set or checked at the time of initial programming.
 To do this, proceed as follows:

Function	Button	Display
1 Switch on the programming device		SMART Programmer Version 2.30
2 Go to the "Download/Program" menu item		<downld/progr>
3 Select the <downld/progr> menu		download all
4 Load all the stored parameters from the DSI-SMART (PTM)/basicDIM ILD in the DSI-SMART Programmer. (The light is switched off throughout this entire process. The DSI-SMART (PTM)/basicDIM ILD switches back to automatic mode after data transfer has successfully completed.)		download all reading....OK
5 All the parameters are now stored in the programming device. Quit this menu item		<downld/progr>
6 Go to the "Basic Parameters" menu item		<basic param>
7 Confirm. The adjustable parameter is then shown on the first line. The current value (e.g. 65) can also be seen on the first line. Possible settings are displayed on the second line.		light level: 65 1-100/max/man
8 If this value is to be modified, select it by pressing the "Select" button. The asterisk in the top right hand corner indicates that the setting can be modified.		light level: 65 * 1-100/max/man
9 Use the "Scroll" buttons to select the desired value.		light level: 70 * 1-100/max/man
10 Quit this menu item. The previously set value is retained.		light level: 70 1-100/max/man
11 Select the next parameter.		t-delay: 10 min 30s-60min/cont.
12 Press "Select" to make this parameter modifiable. (Example: currently 10min)		t-delay: 10 min* 30s-60min/cont.
13 Use the "Up/Down" buttons to set the new value (e.g. 20min).		t-delay: 20 min* 30s-60min/cont.
14 Quit this menu item.		t-delay: 20 min 30s-60min/cont.
15 Repeat this procedure until all the parameters have been set as required. A list of all the parameters can be found in Section 2.1: Adjustable parameters		
16 When all parameters have been set, quit the <parameter> menu item		<basic param>
17 Go to <downld/progr>		<downld/progr>
18 Select the <downld/progr> menu		download all
19 Go to <programm all>		program all
20 Transfer all the stored parameters from the DSI-SMART Programmer to the DSI-SMART (PTM)/basicDIM ILD. (The light is switched off throughout this entire process. The DSI-SMART (PTM)/basicDIM ILD switches back to automatic mode after data transfer has successfully completed.)		program all sending....OK
All the parameters are now stored in the DSI-SMART (PTM)/basicDIM ILD.		

2.3 Programming Individual Parameters

As well as programming the entire list of parameters, individual parameters can also be modified. To do this, proceed as follows:

Function	Button	Display
1 Switch on the programming device		SMART Programmer Version 2.30
2 Go to the "Basic Parameters" menu item		<basic param>
3 Select. The adjustable parameter is then shown on the first line. The current value (e.g. 65) can also be seen on the first line. Possible settings are displayed on the second line.		light level: 65 1-100/max/man
4 Select the parameter that is to be modified. (e.g. change bright-out from "yes" to "no".)		bright-out: yes yes/no
5 Read out the currently set value from the DSI-SMART (PTM)/basicDIM ILD.		bright-out: yes reading.... OK
6 Press "Select" to make this parameter modifiable.		bright-out: yes * yes/no
7 Use the "Up/Down" buttons to change to "no".		bright-out: no * yes/no
8 Program the change in the DSI-SMART (PTM)/basicDIM ILD.		bright-out: no * sending.... OK
Repeat this procedure until all the parameters have been set as required.		






Please note: In the case of individual programming, the lighting is not switched off when reading data in and out.

3. Monitoring

The following actual values can be monitored in the case of the DSI-SMART PTM and basicDIM ILD⁴:






Parameter	Value	Description
DSImon	0-255 / 0-100%	Current DSI value output by the DSI-SMART PTM/basicDIM ILD.
LUXmon	x.x lx	Current light level in lux measured by the DSI-SMART PTM/basicDIM ILD.

Reading out actual values:

Function	Button	Display
1 Switch on the programming device		SMART Programmer Version 2.30
2 Go to the "Monitoring" menu item		<monitors>
3 Select. The "DSImon" parameter is then shown on the first line.		DSImon: 0 0%
4 Select the parameter that is to be monitored. (e.g. LUXmon)		LUXmon: 0.0 In lx
5 Read out the currently measured value from the DSI-SMART (PTM)/basicDIM ILD.		LUXmon: 50.0 Reading.... OK

4. Remote Control

The remote control function makes it possible to switch the lighting off and/or start automatic lighting control in the DSI-SMART (PTM)/basicDIM ILD.

Function	Button	Display
1 Switch on the programming device		SMART Programmer Version 2.30
2 Go to the "IR-Remote" menu item		<IR remote>
3 Select. The "lamp off" function is then shown on the first line.		lamp off
4 Select the desired function (e.g. lamp to automatic)		lamp to auto- matic
5 Press Send to transfer to the DSI-SMART (PTM)/basicDIM ILD.		lamp to auto- sending....

5. System Tests

Various function tests can be performed on the DSI-SMART PTM and basicDIM ILD in this menu item⁴:

Parameter	Value	Description
PTM-status	Short circuit/OK	Test whether there is a short-circuit in the momentary-action switch lead
test start		start commissioning test
test end		stop commissioning test

Please note: The delay times of the sensor are temporarily set to the minimum adjustable time during the commissioning test. This makes it possible to test this function quickly and simply.

⁴ The Monitoring and System tests functions are only supported by the DSI-SMART PTM and basicDIM ILD.

6. Status and Error Messages








Message	Description
sending.... OK	Transfer from programmer to sensor successful
reading.... OK	Transfer from sensor to programmer successful
link error	No reply from DSI-SMART (PTM)/basicDIM ILD
not supported	Command is not supported by the device

Make sure that each transfer is acknowledged by “sending OK” or “reading OK”. Otherwise correct programming cannot be guaranteed.

Please note: When using electronic ballasts that operate lamps in the 36 kHz range, interference frequencies generated by the light source may cause programming problems. The maximum range of the DSI-SMART Programmer is significantly reduced by using such equipment. In such cases it is advisable to use the SMART Controller or the momentary-action switch to switch off the lighting before programming.

7. Reset DSI-SMART (PTM)/basicDIM ILD to Factory Settings

The DSI-SMART, DSI-SMART PTM or basicDIM ILD can be reset to their default factory settings. To do this, proceed as follows:

Function	Button	Display
1 Switch on the programming device		SMART Programmer Version 2.30
2 Go to the “Download/Program” menu item	 	<downld/progr>
3 Select the <downld/progr> menu		download all
4 Select the “restore default” parameter.	 	restore default
5 Enable the change in the DSI-SMART (PTM)/basicDIM ILD.		restore default sending.....OK