Dimmer KNX 15.2K

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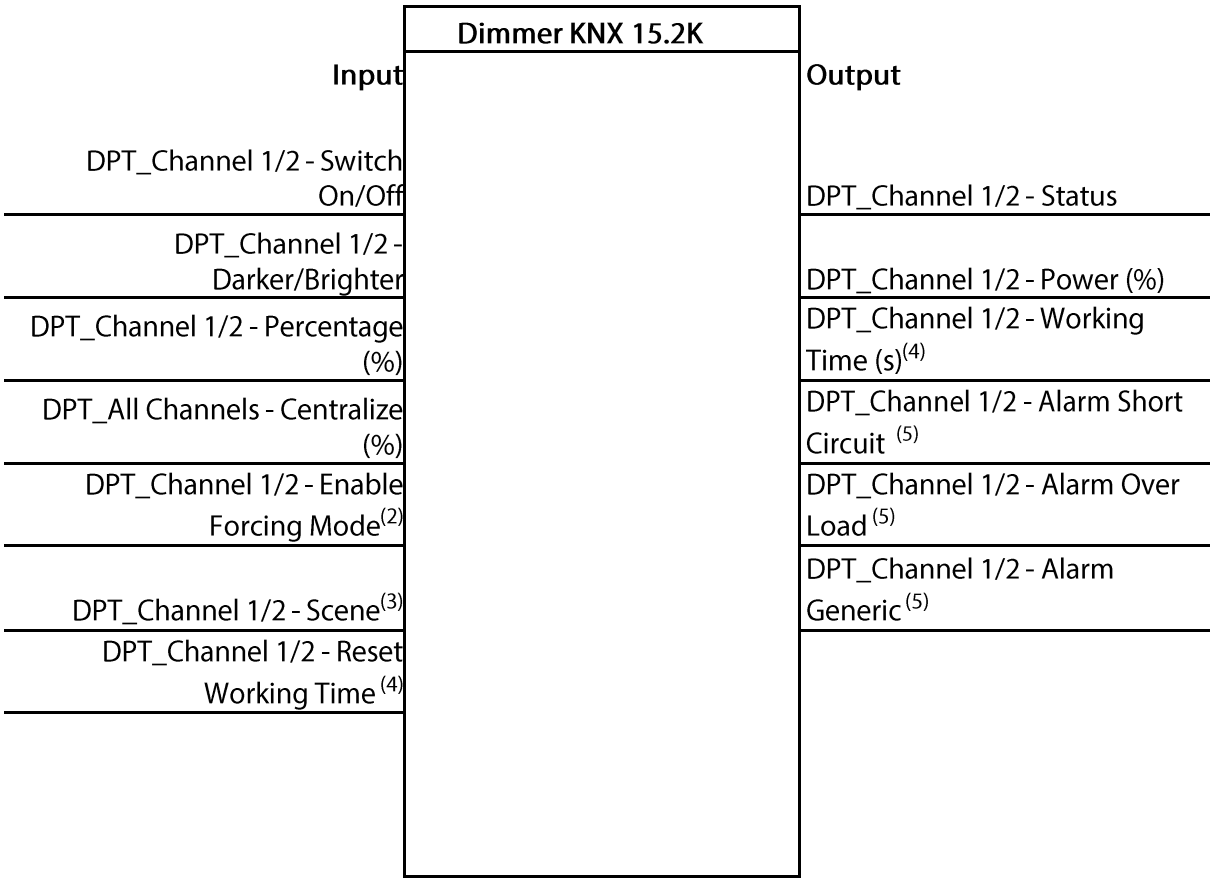
1 Device Template



Note	
Note	Description
(1):	It appears in the descriptor only if the **PAR_Enable Centrailze** parameter is set to the value 'Yes'. The type of this object will be DPT_Switch (1.001), if PAR_Centralize Message is set to the value "Switch 1bit ", or DPT_Scaling (5.001) if the **PAR_Centralize Message** parameter is set to "Scaling% (8bit)" value.
(2):	It appears in the descriptor only if the **PAR_Enable Forcing Mode** parameter is set to the value 'Yes'. The type of this object will be DPT_Switch (1.001) if the **PAR_Activation Forcing Mode Type** parameter is set to the value "Switch (1bit)", or DPT_Scaling (5.001) if the parameter PAR_Activation Forcing Mode Type is set to "Scaling% (8bit)".
(3):	It appears in the descriptor only if the **PAR_Enable Scene** parameter is set to the value 'Yes'.
(4):	It appears in the descriptor only if the **PAR_Enable Hours Counter** parameter is set to the value 'Yes'.
(5):	It appears in the descriptor only if the parameter **PAR_Enable Diagnostic** is set to the value 'Yes' and the corresponding parameter to enable the alarm is set to the value 'Yes'

Parameters for each channel
PAR_Load Selection
PAR_Switch ON Value
PAR_Minimum Dimming Percentage (%)
PAR_Dimming Time 1
PAR_Dimming Time 2
PAR_Dimming Time 3
PAR_ON/OFF Time (s)
PAR_Darker/Brighter Time (s)
PAR_Percentage Time (s)
PAR_Enable Forcing Mode
PAR_Activation Forcing Mode Type(1)
PAR_Force by Switching at value(1)(2)
PAR_Behaviour at start forcing mode(1)(2)
PAR_Behaviour at end forcing mode(1)
PAR_Value at Startup
PAR_Enable Hours Counter
PAR_Hours Counter Level(4)
PAR_Feedback Sending Mode
PAR_Enable Diagnostic
PAR_Enable Generic Alarm(5)
PAR_Enable Short-Circuit Alarm(5)
PAR_Enable Over-Temperature Alarm(5)
PAR_Generic Alarm Sending Mode
PAR_Short-Circuit Alarm Sending Mode
PAR_Over-Temperature Sending Mode
PAR_Enable Scene
PAR_Scene Y Number(6)
PAR_Scene Y Value (%)(6)
PAR_Scene Y Recall Time(6)
PAR_Enable Scene Y Learning(6)
General Parameters
PAR_Enable Test
PAR_Enable Centralize Mode
PAR_Centralize Message(3)

Note	
Note	Description
(1):	It appears in the descriptor only if the **PAR_Enable Forcing Mode** parameter is set to the value 'Yes'
(2):	It appears in the descriptor only if the parameter **PAR_Activation Forcing Mode Type** is set to the value "Switch (1bit)"
(3):	It appears in the descriptor only if the parameter **PAR_Enable Centralize Mode** is set to the value 'Yes'
(4):	It appears in the descriptor only if the **PAR_Enable Hours Counter** parameter is set to the value 'Yes'
(5):	It appears in the descriptor only if the parameter **PAR_Enable Diagnostic** is set to the value 'Yes' and the corresponding parameter to enable the alarm is set to the value 'Yes'
(6):	It appears in the descriptor only if the **PAR_Enable Scene** parameter is set to the value 'Yes' (1≤ Y ≤ 4)

1.1 Product name and application name on the descriptor

Product	Application
2 Channels Dimming Actuator	Dimming Actuator for Finder Application

1.2 Name of the configuration pages of the parameters on the descriptor

Page	Description
General settings	Contains general and configuration parameters common to all channels
Channel 1	Configuration page of channel 1 parameters
Channel 2	Configuration page of channel 2 parameters
Channel 1 Forcing (1)	Configuration page of channel 1 forcing parameters
Channel 2 Forcing(1)	Configuration page of channel 2 forcing parameters
Channel 1 Diagnostic(2)	Configuration page of channel 1 diagnostic parameters
Channel 2 Diagnostic(2)	Configuration page of channel 2 diagnostic parameters
Channel 1 scenes(3)	Configuration page of channel 1 scenarios parameters
Channel 2 scenes(3)	Configuration page of channel 2 scenarios parameters

(1): appears on the descriptor only if the **PAR_Enable Forcing Mode** parameter is set to the value "Yes".

(2): appears on the descriptor only if the **PAR_Enable Diagnostic** parameter is set to the value "Yes".

(3): appears on the descriptor only if the **PAR_Enable Scenes** parameter is set to the value "Yes".

1.3 Datapoint List

Datapoint	DPT	Flags
DPT_Channel 1/2 - Switch On/Off	DPT_Switch (1.001)	R-W
DPT_Channel 1/2 - Darker/Brighter	DPT_Control_Dimming (3.007)	R-W
DPT_Channel 1/2 - Percentage (%)	DPT_Scaling (5.001)	R-W
DPT_All Channels - Centralize (%)	DPT_Switch (1.001) o DPT_Scaling (5.001)	R-W
DPT_Channel 1/2 - Enable Forcing Mode	DPT_Switch (1.001) o DPT_Scaling (5.001)	R-W
DPT_Channel 1/2 - Scene	DPT_SceneControl (18.001)	R-W
DPT_Channel 1/2 - Reset Working Time	DPT_Reset (1.015)	R-W
DPT_Channel 1/2 - Status	DPT_Switch (1.001)	C-R-T
DPT_Channel 1/2 - Power (%)	DPT_Scaling (5.001)	C-R-T
DPT_Channel 1/2 - Working Time (s)	DPT_TimePeriodHours (7.007)	C-R-T
DPT_Channel 1/2 - Alarm Short Circuit	DPT_Alarm (1.005)	C-R-T
DPT_Channel 1/2 - Alarm Over Load	DPT_Alarm (1.005)	C-R-T
DPT_Channel 1/2 - Alarm Generic	DPT_Alarm (1.005)	C-R-T

Table 1

1.4 Detailed description of communication objects

1.4.1 DPT_Channel 1/2 - Switch On/Off (1.001 Switch)

This message is sent to the device to turn the load on or off on Channel 1/2. If the value of the message is 0 (OFF), the load is switched off (power 0%). If, instead, the value of the message is 1 (ON), the load is switched on at the percentage value programmed via the **PAR_Switch ON Value** parameter. When the message is received, the device carries out the request as quickly as possible (<1 sec.) If the **PAR_ON / OFF Time (s)** parameter is set to the 'Minimum Time' value. Otherwise it makes an increase (turning off phase) or a decrease (turning off phase) in a time interval proportional to the one set with the parameter **PAR_ON / OFF Time (s)** according to the programmed percentage value.

E.G.: PAR_ON/OFF Time (s) = 1 sec. The 20% switching ON level is got in about 200 ms, while the 90% level in about 900 ms.

If the **PAR_Switch ON Value** switching ON percentage value is lower than the minimum control value set using the **PAR_Minimum Dimming Percentage (%)** parameter, the device will set the minimum control value at power on.

1.4.1 DPT_Channel 1/2 - Darker/Brighter (3.007 Control_Dimming)

With this message the power of the Channel 1/2 channel of the device is increased or decreased gradually with respect to the current percentage value, dividing the range of dimmable power up to 64 different levels, according to the following table:

Message Value	Effect
0	Stop decreasing
1	Decreases del 100%
2	Decreases del 50%
3	Decreases del 25%
4	Decreases del 13%
5	Decreases del 6%
6	Decreases del 3%
7	Decreases del 1%
8	Stop increasing
9	Increases del 100%
10	Increases del 50%
11	Increases del 25%
12	Increases del 13%
13	Increases del 6%
14	Increases del 3%
15	Increases del 1%

Table 3

If the channel is off (0%), the reception of an increase message causes the channel to switch on and the gradual increase in the percentage power value of the channel. The change from 0% to 100% or from 100% to 0% occurs within a time interval defined by the **PAR_Darker / Brighter Time (s)** parameter. The STOP message (0x00 being decremented, 0x08 being incremented), determines the end of the variation. If an increase is requested when the Channel 1/2 is already at the highest percentage value, the message has no effect. If during the decrement phase, once the minimum control value defined by the **PAR_Minimum Dimming Percentage (%)** parameter has been reached, the STOP message (0x00) does not arrive within 3 seconds the Channel 1/2 channel is switched off. In this way it will be possible to control the switching off of the channel even with a KNX button that allows the sending of 4-bit telegrams.

1.4.2 DPT_Channel 1/2 - Percentage (%) (5.001 Scaling)

With this message it is possible to switch off the Channel 1/2 channel (0%) or set the desired percentage value of power. The transition to the new control value takes place over a period of time defined by the **PAR_Percentage Time (s)** parameter. The device carries out the request as quickly as possible (<1 sec.) If this parameter is set to the value 'Minimum Time'. otherwise the new regulation value will be reached in a time interval proportional to the requested value. For example, if the parameter **PAR_Percentage Time (s)** is set to the value 10 s, a variation relative to the maximum excursion (0% ÷ 100% or 100% ÷ 0%) occurs in 10 seconds. A change from the current value of 50% occurs in 5 seconds, 25% in 2.5 seconds, and so on.

$$t\ (sec) = (P\% / 100) \times PAR\_Percentage\ Time\ (s) \qquad (1)$$

If the required percentage value is different from 0% but lower than the minimum control value defined with the **PAR_Minimum Dimming Percentage parameter (%)**, the device will set the minimum adjustment value.

1.4.3 DPT_All Channels - Centralize (%) (1.001 Switch, 5.001 Scaling)

Type DPT_Switch (1.001): Upon receiving this message, the device switches the lights connected to its two channels on or off centrally.

Type DPT_Scaling (5.001): Upon receiving this message, the device turns on or off the lights connected to its two channels centrally.

1.4.4 DPT_Channel 1/2 - Enable Forcing Mode (1.001 Switch, 5.001 Scaling)

Type DPT_Switch (1.001): When this message is received with the value 1 (ON), the device permanently forces the status of Channel 1/2 to the value set by parameter **PAR_Behaviour at start forcing mode**. During forcing the other request messages to adjust the percentage value on the channel will not be considered by the device and must be sent again at the end of the forced state. When the message is received with the value 0 (OFF), the device ends the forcing status by setting on the channel the value set by the parameter PAR_Behaviour at end forcing mode. The adjustment interval is the one provided by the **PAR_ON / OFF Time (s)** parameter.

Type DPT_Scaling (5.001): When this message is received, the device permanently forces the Channel 1/2 channel status to the required percentage value. During forcing the other request messages to adjust the percentage value on the channel will not be considered by the device and must be sent again at the end of the forced state. At the end of the forcing state, the device sets on the channel the value set by the parameter **PAR_Behaviour at end forcing mode**. The activation and deactivation of the forcing status occurs in a time interval established by the **PAR_Percentage Time (s)** parameter.

1.4.5 DPT_Channel 1/2 - Scene (18.001 SceneControl)

The **DPT_Channel 1/2 - Scene** message is sent to the device whenever you want to set the Channel 1/2 channel output to a predefined percentage value through the configuration parameters of a scenario. The DPT assigned to this message is 18.001.
Up to four different scenarios can be set for each individual channel. If the X-channel scenarios are enabled via the **PAR_Enable Scenes** parameter, the corresponding configuration page will appear, on which the relative parameters will be shown. The number with which the Y scenario can be set is that assigned to **the PAR_Scene Y Number** parameter (1≤Y≤2) in the range [1-64]. If you leave the parameter with the default value "No scene number", the scenario has no effect because although it has been enabled, no number is assigned to it. In this way the user has the possibility to configure only the scenarios that he will actually use. The percentage value assumed by the channel in the Y scenario will be **PAR_Scene Y Value (%)** (1≤Y≤4). The time interval for activating a scenario is established using the **PAR_Scene Y Recall Time** parameter.
Once a scenario for channel X is recalled, the status of the channel output can be changed by sending the **DPT_Channel 1/2 - Darker / Brighter** or **DPT_Channel 1/2 - Percentage (%)** message. If **PAR_Enable Scene Y Learning** (1≤Y≤2) is set to the value "Yes", the user is able to reprogram the value of the X channel state expected when configuring the scenario with the current value. When the device receives the message **DPT_Channel 1/2 - Scene** with the value:

DPT_Channel 1/2 - Scene = 0x80 | PAR_Scene Y Number

will update **PAR_Scene Y Value (%)** with the current value of the channel set by the user and store it for the subsequent call of scenario Y. Receiving a centralized activation message or forcing entails the loss from the state required by the scenario previously requested.

1.4.6 DPT_Channel 1/2 - Reset Working Time (1.015 Reset)

This message, if sent with the reset value, resets the operating hours counter of Channel 1/2.

1.4.7 DPT_Channel 1/2 - Status (1.001 Switch)

This message is sent by the device every time the status of Channel 1/2 changes, that is in the transition from off to on and vice versa. The value 0 (OFF) indicates channel off (0%), the value 1 (ON) indicates that the channel is on and adjusted with a certain percentage value.

1.4.8 DPT_Channel 1/2 - Power (%) (5.001 Scaling)

This message is sent by the device at the end of each percentage setting, once the new nominal value (COV) has been reached, or cyclically according to the **PAR_Feedback Sending Mode** parameter setting.

1.4.9 DPT_Channel 1/2 - Working Time (s) (7.007 TimePeriodHours)

This message is sent by the device cyclically, with a period selectable through the **PAR_Hours Counter Level** parameter, to signal the total hours of operation of the Channel 1/2 channel from the first power on.

1.4.10 DPT_Channel 1/2 - Alarm Short Circuit (1.005 Alarm)

This message is sent by the device if the **PAR_Enable Diagnostic** and **PAR_Enable Short-Circuit Alarm** parameters are set to the value 'Yes', to signal the presence or absence of the short-circuit condition on the Channel 1/2 channel. The message is sent cyclically according to the **PAR_Short-Circuit Alarm Sending Mode** parameter setting.

1.4.11 DPT_Channel 1/2 - Alarm Over Load (1.005 Alarm)

This message is sent by the device if the **PAR_Enable Diagnostic and PAR_Enable Over-Temperature Alarm** parameters are set to the value 'Yes', to signal the presence or absence of the overload condition on the Channel 1/2 channel. The message is sent cyclically according to the **PAR_Over-Temperature Sending Mode** parameter setting.

1.4.12 DPT_Channel 1/2 - Alarm Generic (1.005 Alarm)

This message is sent by the device if the **PAR_Enable Diagnostic** and **PAR_Enable Generic Alarm** parameters are set to the value 'Yes', to signal the presence or absence of a generic fault condition on the Channel 1/2 channel. The message is sent cyclically according to the setting of the **PAR_Generic Alarm Sending Mode** parameter.

1.5 List of channel configuration page parameters

Parameter	Default
PAR_Load Selection	NO
Defines the type of dimming required on the channel, such as Automatic, RC, L, LED	
PAR_Switch ON Value	OFF
Select the percentage value to switch on the channel using the DPT_Channel 1 / 2_SwitchON / OFF message	
PAR_Minimum Dimming Percentage (%)	Output Setting
Defines the minimum control percentage value for each adjustment process, except 0% (load off)	
PAR_Dimming Time 1	5
Defines the 1st maximum time interval in seconds of passing from 0% to 100% and vice versa that can be chosen	
PAR_Dimming Time 2	5
Defines the 2nd maximum time interval in seconds of passing from 0% to 100% and vice versa that can be chosen	
PAR_Dimming Time 3	5
Defines the 3rd maximum time interval in seconds of passing from 0% to 100% and vice versa that can be chosen	
PAR_ON/OFF Time (s)	5
Defines the time interval in seconds when the channel is switched on or off (Switch)	
PAR_Darker/Brighter Time (s)	0
Defines the time interval in seconds of switching by levels (Control Dimming)	
PAR_Percentage Time (s)	0
Defines the time interval in seconds of switching by absolute percentage value (Scaling)	
PAR_Enable Forcing Mode	High
Enable or disable forced channel management	
PAR_Enable Centralize Mode	1
Enable / disable centralized channel management	
PAR_Value at Startup	30
Set the absolute value at the device power on or reset after programming	
PAR_Enable Hours Counter	No
Enable/disable operating hour counter	

PAR_Hours Counter Level	AND
Select the period of operating hours for sending the hour counter value	
PAR_Feedback Sending Mode	No
Defines how to send the message DPT_Channel 1/2 - Power (%), if COV or cyclic	
PAR_Enable Diagnostic	OFF
Enables / disables the configuration of diagnostic messages	
PAR_Enable Scene	OFF
Enable channel scenarios	

1.6 List of parameters of the Forcing Settings page

Parameter	Default
PAR_Activation Forcing Mode Type	
Defines the type of communication object to activate / deactivate the forced management of the channel	
PAR_Force by Switching at value	
Define with which value the forced management of the channel with 1-bit message will be activated / deactivated	
PAR_Behaviour at start forcing mode	Output Setting
Defines the percentage value with which to activate the forced management of the channel with a 1-bit message	
PAR_Behaviour at end forcing mode	5
Defines the percentage value that will be set on the channel at the end of forced management	

1.7 List of parameters of the Scene Settings page

Parameter	Default
PAR_Scene Y Number	NO
Number assigned to scenario Y	
PAR_Scene Y Value (%)	OFF
Select the absolute percentage value of the Y scenario	
PAR_Scene Y Recall Time	Output Setting
Select the adjustment range when calling the Y scenario	
PAR_Enable Scene Y Learning	5
Enables / disables overwriting of the scenario	

1.8 List of parameters of the Diagnostic Settings page

Parameter	Default
PAR_Enable Generic Alarm	NO
Enables / disables the sending of the generic alarm message	
PAR_Enable Short-Circuit Alarm	OFF
Enables / disables the sending of the short-circuit alarm message	
PAR_Enable Over-Temperature Alarm	Output Setting
Enables / disables the sending of the overload alarm message	
PAR_Generic Alarm Sending Mode	5
Defines the mode of sending the generic alarm	
PAR_Short-Circuit Alarm Sending Mode	Output Setting
Defines the sending mode of the short-circuit alarm	
PAR_Over-Temperature Sending Mode	5
Defines the sending mode of the overload alarm	

1.9 *Descrizione dettagliata dei parametri di canale*

Parameter	Default
PAR_Enable Test	NO
Enable / disable test mode	

- PAR_Load Selection
- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷3]

Defines the type of load on the channel, in according to the following table 4:

Value	Type of load selection
0	Automatic(*)
1	R-C
2	L
3	LED

Table 4

1.9.1 PAR_Switch ON Value

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷11]

This parameter allows you to set the percentage value to switch on the channel using the message DPT_Channel 1 / 2_SwitchON / OFF, in according to the following table 5:

Value	Meaning
0	Value before last switch-OFF
1	Minimum Value
2	100%
3	10%
4	20%
5	30%
6	40%
7	50%
8	60%
9	70%
10	80%
11	90%

Table 5

1.9.2 PAR_Minimum Dimming Percentage (%)

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷17]

With this parameter, select the minimum percentage value for regulating the channel power for all control processes (except for the 0% value that switches off the channel). Requests with values below this threshold are increased by the device to the minimum control value. The possible values are listed in the following table 6:

Value	Meaning
0	1%
1	2%
2	3%
3	4%
4	5%
5	6%
6	7%
7	8%
8	9%
9	10%
10	15%
11	20%
12	25%
13	30%
14	35%
15	40%
16	45%
17	50%

Table 6

1.9.3 PAR_Dimming Time 1, PAR_Dimming Time 2, PAR_Dimming Time 3

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷5]

They allow to extend to three the possibility of choosing the regulation speed from 0% to 100%, for greater flexibility in configuring the device.

1.9.4 PAR_ON/OFF Time (s)

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷3]

This parameter selects the control speed for the channel switch-on and switch-off phases using the **DPT_Channel 1/2 - Switch On / Off** message. The possible values are shown in table 7.

Value	Meaning
0	Minimum Time
1	Dimming Time 1
2	Dimming Time 2
3	Dimming Time 3

Table 7

1.9.5 PAR_Darker/Brighter Time (s)

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷255]

This parameter selects the control speed for the channel switch-on and switch-off phases using the **DPT_Channel 1/2 - Darker / Brighter** message. The possible values are shown in table 7.

1.9.6 PAR_Percentage Time (s)

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: numeric
- Range: [0÷255]

This parameter selects the control speed for the channel switch-on and switch-off phases using the **DPT_Channel 1/2 - Darker / Brighter** message. The possible values are shown in table 7.

1.9.7 PAR_Enable Forcing Mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: numeric
- Range: [0÷1]

With this parameter it is enabled with the value "Yes" or it disables the forced management of the channel with the value "No".

1.9.8 PAR_Enable Centralize Mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷1]

Enables or disables the centralized channel management mode. By setting the parameter with the value "Yes", the parameter **PAR_Centralize Message** together with the communication object related to the message **DPT_All Channels - Centralize (%)** appears in the descriptor.

1.9.9 PAR_Value at Startup

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷11]

Set the percentage value when the device is powered up or reset after a reprogramming operation. The possible values are shown in table 8.

Value	Meaning
0	Minimum value
1	100%
2	OFF
3	10%
4	20%
5	30%
6	40%
7	50%
8	60%
9	70%
10	80%
11	90%

Table 8

1.9.10 PAR_ Enable Diagnostic

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

Selecting the value "Yes" the configuration page of the diagnostic messages appears in the descriptor.

1.9.11 PAR_Enable Generic Alarm

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

Selecting the value "Yes", the message **DPT_Channel 1/2 - Alarm Generic** and **PAR_Generic Alarm Sending Mode** appear in the descriptor.

1.9.12 PAR_Enable Short-Circuit Alarm

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

Selecting the value "Yes", the message **DPT_Channel 1/2 - Short Circuit Alarm** and the parameter **PAR_Short Circuit Alarm Sending Mode** appear in the descriptor.

1.9.13 PAR_Enable Over-Temperature Alarm

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

Selecting the value "Yes", the message **DPT_Channel 1/2 - Alarm Over Load** and the parameter **PAR_Over Temperature Sending Mode** appear in the descriptor.

1.9.14 PAR_ Generic Alarm Sending Mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [1÷4]

Set the delivery mode of the **DPT_Channel 1/2 - Alarm Generic** message.

1.9.15 PAR_ Short-Circuit Alarm Sending Mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [1÷4]

Set the delivery mode of the **DPT_Channel 1/2 – Short Circuit** message.

1.9.16 PAR_ Over-Temperature Sending Mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [1÷4]

Set the delivery mode of the **DPT_Channel 1/2 – Over Load** message.

1.9.17 PAR_ Enable Scene

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

By selecting the "Yes" value the channel scenarios are enabled, choosing the "No" value the scenarios are disabled. With enabled scenarios, the sub-page of the configuration parameters of the scenarios also appears in the descriptor, as well as the message **DPT_Channel 1/2 - Scene.**

1.10 Detailed description of parameters of the forced mode configuration page

1.10.1 PAR_ Activation Forcing Mode Type

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: 0÷1

With this parameter you select the type of message to activate / deactivate forced management.
If the value "Switch (1 bit)" is selected, the activation / deactivation message of the forced management will be of type Switch (1.001), otherwise it will be of the Scaling type (5.001). In the first case, the **PAR_Force by Switching** at value and **PAR_Behaviour** at start forcing mode parameters will also appear in the descriptor.

1.10.2 PAR_ Force by Switching at value

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: numeric
- Range: [0÷1]

This parameter defines with which value the forced management of the channel will be activated when the parameter **PAR_Activation Forcing Mode Type** is set to the value "Switch (1 bit)". The possible values are 0 (OFF) and 1 (ON).

1.10.3 PAR_ Behaviour at start forcing mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: numeric
- Range: [0÷12]

This parameter defines the percentage value with which the forced management of the channel will be activated when the parameter **PAR_Activation Forcing Mode Type** is set to the value "Switch (1 bit)". The possible values are shown in table 9.

Value	Meaning
0	No change
1	Minimum value
2	100%
3	OFF
4	10%
5	20%
6	30%
7	40%
8	50%
9	60%
10	70%
11	80%
12	90%

Table 9

With the "No Change" value, the channel maintains the percentage value of power at the time of activation of forced management unchanged.

1.10.4 PAR_ Behaviour at end forcing mode

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: numeric
- Range: [0÷12]

This parameter defines the percentage value with which the forced management of the channel will be deactivated. The possible values are shown in table 10.

Value	Meaning
0	Value before forcing
1	Minimum Value
2	100%
3	OFF
4	10%
5	20%
6	30%
7	40%
8	50%
9	60%
10	70%
11	80%
12	90%

Table 10

1.11 Detailed description of the parameters configuration page

These parameters are common to all channels.

1.11.1 PAR_Scene Y Number

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷64]

Sets the number with which the Y scenario will be recalled.

1.11.2 PAR_Scene Y Value (%)

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷10]

Sets the percentage value assigned to scenario Y according to the values in table 11.

Value	Meaning
0	OFF
1	10%
2	20%
3	30%
4	40%
5	50%
6	60%
7	70%
8	80%
9	90%
10	100%

Table 11

1.11.3 PAR_ Scene Y Recall Time

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: Numeric
- Range: [0÷3]

With this parameter, the control speed is selected when the scenario Y is recalled.

1.11.4 PAR_ Enable Scene Y Learning

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

Enables / disables the overwriting of the percentage value of the Y scenario with that set during device operation.

1.12 Detailed description of the general parameters

1.12.1 PAR_ Enable Test

- Property Datatype: PDT_UNSIGNED_8bit
- Datapoint Type: None
- Range: [0÷1]

Enable / disable the test mode.

1.13 Manual mode enabling

When the "TEST" key is pressed for a period of two seconds, the relative LED lights up and the device enters manual mode. A subsequent short press of the "TEST" key returns the device to the programmed mode. During manual mode, the reception of any message via the bus will have no effect and must therefore be returned when the programmed mode is restored. When exiting the manual mode, the device maintains the dimming status of the channels set manually.

1.13.1 Intensity selection in manual mode

After entering manual mode, pressing the UP and DOWN keys changes the percentage value of channel dimming.

1.13.2 Channel LED behavior

The green LED indicates that the channel output is in ON state with a certain percentage of dimming power.
The lighting up of the red LED indicates instead that the channel is in an alarm state.
The red LED indicates the presence or absence of an anomaly on the channel according to the following table:

RED LED			
Status	**Blinking Time**	**Priority**	**Meaning**
OFF	----	----	No warning
ON	1 sec	High	Short circuit
ON	2 sec	Medium	Overload
ON	3 sec	Low	Over temperature

If there are several faults at the same time, the one with the highest priority will be indicated.