

Product Manual Rosa Switch





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Rosa KNX switches offer a wide range of functional flexibility up to 6 programmable buttons. Rosa switches can be programmed for control lighting, shutter/blind drivers, speakers, make scene calls and mimic panic buttons. Each button can be programmed independently for a different function.

Inherent color tone variations are normal to be observed on bronze and gold due to anodizing surface treatment process.

2. Device Technology

2.1 Button Definitions



Programmable Buttons (up to 6 touch buttons)

2.2 Connection Diagram



- 1. KNX Port Terminal
- 2. Programming Button
- 3. Programming LED



2.3 Technical Data

Operating Voltage	Voltage	21V 30V DC, via the KNX bus
	Current drawn from bus	<10mA
Safety Rating Class		IP 20, DIN EN 60529 II EN 61140
Connections	KNX	Bus Connection
Operating Temperature	Ambient	-5° C + 45° C
	Storage	-25° C + 55° C
	Measurement Accuracy	±0,3 °C
Humidity	Max. Air humidity condensation	95% no moisture
Dimensions	Front Side	85 x 85 mm
	Side- Surface mounted part	11 mm
	Side- Flush mounted part	19.4 mm
Weight	73 g	
Box Material	Metal or Glass, polycarbonate	
CE	In accordance with the EMC guideline and low voltage	

2.4 **Dimensions**





3. Communication Object Table

No.	Object Name	Function	Number of Bits	Flags
0	General, operation	Active	1	СТ
1	Rocker 1, switch	On/Off	1	CWT
	Rocker 1, shutter	Up/Down	1	CWT
	Rocker 1, value [0,1]	Send	1	CWT
	Rocker 1, value [0255]	Send	8	CWT
	Rocker 1, value [065535]	Send	16	CWT
	Rocker 1, value [-3276832768]	Send	32	CWT
	Rocker 1, value [04294967295]	Send	64	CWT
	Rocker 1, value.temperature	Send	64	CWT
	TouchButton 1, switch	On/Off	1	CWT
	TouchButton 1, shutter	Up/Down	1	CWT
	TouchButton 1, value [0,1]	On/Off	1	CWT
	TouchButton 1, value [0255]	Send	8	CWT
	TouchButton 1, value [065535]	Send	16	CWT
	TouchButton 1, value [- 3276832768]	Send	32	CWT
	TouchButton 1, value [04294967295]	Send	64	CWT
	TouchButton 1, value.temperature	Send	64	CWT
2	Rocker 1, dimming	Send	4	CWT
	Rocker 1, shutter	Stop/Lamella Adj	1	CWT
	TouchButton 1, dimming	Send	4	CWT
	TouchButton 1, shutter	Stop/Lamella Adj	1	CWT
	TouchButton 1, value [0,1]	On/Off	1	CWT
	TouchButton 1, value [0255]	Send	8	CWT
	TouchButton 1, value [065535]	Send	16	CWT
	TouchButton 1, value [- 3276832768]	Send	32	CWT
	TouchButton 1, value [04294967295]	Send	64	CWT
	TouchButton 1, value.temperature	Send	64	CWT
3	Rocker 1, shutter	Top Position	1	CWT
	Rocker 1, status	Top Position	1	CWT
	TouchButton 1, shutter	Top Position	1	CWT
	TouchButton 1, status	Top Position	1	CWT
4	Rocker 1, shutter	Bottom Position	1	CWT
	TouchButton 1, shutter	Bottom Position	1	CWT

4. Parameters and Communication Objects

4.1 General

General parameters include;

- In Operation (Device Alive) Function
- Telegram Limit Function
- Rocker Count
- Light Duration Of Status Indication Function
- LED Duration of Touch Feedback Function
- Navigation LED Brightness Function

-.-.- STx Touch button > General

General	Enable In Operation	O Enable O Disable	
Rocker 1	In Operation Bit	Off On	
Touch Button 1	In Operation Send Interval [sec]	300	\$
Touch Button 2	Enable Telegram Limit	Enable Disable	
Idden battom 2	Telegram Limit Period Duration	50ms	*
Rocker 2	Maximum Telegram Count In Period	1	\$
Touch Button 3	Light Duration Of Status Indication	0,75 s	•
Touch Button 4	Rocker Count	2	•
	Duration of Touch Feedback LED (after release) [065535 ms]	0	* *
	Navigation Light Brightness [0100%]	100	÷

Figure 1



4.1.1 Parameters

Parameter	Settings	Description
Enable In Operation	Enable/ Disable	In operation can be used to
		ensure that device is alive and
		connected to KNX line.
In Operation Bit	Off/ On	Visible when "Enable In
		Operation" enabled. Bit value
		to send as device alive
		operation
In Operation Send Interval[sec]	0 300 65535	Visible when "Enable In
		Operation" enabled. Cyclic time
		period for sending in operation
		bit
Enable Telegram Limit	Enable/Disable	Limits the number of telegrams
		to send in certain time period
Telegram Limit Period Duration	50ms , 100ms,, 30s, 1min	Visible when "Enable
		Telegram Limit" enabled.
		Time period to check
		telegram numbers
Maximum Telegram Count in	1 100 255	Visible when "Enable Telegram
Period		Limit" enabled. Maximum
		number of telegrams to send in
		telegram limit period duration
Light Duration of Status Indication	0 75 5 2 255 3 255	LEDs on duration when status
	0,703, 2.200, 0.200	LEDs used as operation
		indication with rocker or touch
		buttons
Rocker Count	1, 2 , 3, 4, 5, 6	Number of rockers should be
	, , -, , -, -	selected compatible with device
		to be able to use rockers and
		touch buttons correctly.
Duration of Touch Feedback LED	065535	Touch Feedback LEDs lighting
(after release) [0…65535 ms]		duration after release.
Navigation Light Brightness	0100%	Navigation LED brightness value
[0100%]		
_		

4.1.2 Communication Objects

No	Object Name	Function	Data Type	Flags
0	General – In	Active	1 Bit	CT
	operation		DPT 1.002	



In operation value (0,1) selected through "In operation bit" parameter will be sent via the group address which is linked to this communication object

Table 3

4.2 Rockers and Touch Buttons

Total number of rockers can be selected through "Rocker Count" parameter in "General" tab.

Buttons on the thermostat can be used as rockers or touch buttons.

Select the desired operation from the "Rocker N" (N: Rocker number) tab (Figure 2).

If rockers are configured as touch buttons, 2 touch button tabs will be visible under "Rocker N" tab (Figure 3).

Both rockers and touch buttons have 5 functions;

- no function
- switch
- switch and dim
- shutter
- value operation

STx Touch button >	Rocker 1		
Seneral	Rocker Operation	Rocker 2 Touch Button	
Rocker 1	Rocker Function	No Function	*
Rocker 2			



STx Touch button > Tr	ouch Button 1		
General	Touch Button Function	No Function	•
Rocker 1			
Touch Button 1			
Touch Button 2			
Rocker 2			



4.2.1 Rockers

Number of rockers should be selected in "General" tabs in parameters and should be chosen as compatible with the device that will be configured.

Rockers are numbered from top to bottom. Each Rocker contains 2 touch button separately. Rockers can be configured as 4 different operations and 1 function to disable rocker (No Function). Operation selection can be configured with "Rocker Function" parameter.

Every function enables different parameters and communication objects that will be explained in the following chapters.

Parameter	Setting	Description
Rocker Operation	Rocker/2 Touch Button	Selects the function of rocker
Rocker Function	No Function	Disables the rocker
	Switch	Rocker can be used to send on/off telegrams. (For more information Chapter 4.2.1.1)
	Switch and Dim	Rocker can send on/off and dimming telegrams. (For more information Chapter 4.2.1.2)
	Shutter	Rocker can control shutter, venetian blind, blind, roller and awning. (For more information Chapter 4.2.1.3)
	Value Operation	Rocker buttons can send predefined values from different data types. (For more information Chapter 4.2.1.4)

Table 4

Rockers also have status LEDs which can be configured to indicate state of the operation that is configure.

4.2.1.1.1 Switch

Selecting "Switch" as "Rocker Function" enables to send 1 bit On(1)/Off(0) telegrams to the group address that is linked to respective communication object. Status LEDs can be configured to notify the current status of operation directly with buttons or using communication objects for confirmation to show current status.

eneral	Rocker Operation	Rocker 2 Touch Button	
locker 1	Rocker Function	Switch	٠
Rocker 2	Mode Of Buttons	Left Button On Right Button Off Left Button Off Right Button On	
	Function Of LED	Status Indication	•
	Separate Comm Object	Enable O Disable	





4.2.1.1.1 Pa	rameters	
Parameter	Setting	Description
Mode of Buttons	Left Button On Right Button Off Left Button Off Right Button On	Select which button is ON button and which button is OFF button
Function of LED	LED permanently Off	LED always Off
	LED permanently On	LED always On
	Status Indication	Status LED of last touched rocker button is on, other rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state.
	Inverted Status Indication	Status LED of last touched rocker button is off, other rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state.
	Operation Indication	Status LED of the touched rocker button will be on for the time period selected at "Light Duration of LED" parameter at "General" tab.
Separate Comm Object	Enable/ Disable	Only visible when "Function of LED" selected as "Status Indication" or "Inverted Status Indication". This communication objects is the input of confirmation for status LEDs. If selected "Enable" respective communication object should be linked to an appropriate group address

Table 5

4.2.1.1.2 Communication Objects

No	Object Name	Function		Data Type	Flags	
1	Rocker1 – Telegr.switch	On/Off		1 bit	CWT	
				DPT 1.001		
	On/Off telegrams	s will be send to gr	oup address that i	is linked to this co	mmunication	
	object.					
3	Rocker1 – Status	On/Off		1 bit	CWT	
	Comm.Obj.			DPT 1.002		
	Confirmation for	On/Off switch tele	grams will be rece	ived from this con	nmunication	
	object. If these co	object. If these communications object visible, it must link to an appropriate group				
	address. Otherw	address. Otherwise status LEDs will not function correctly. If status confirmation not to				
	be used the com	be used the communication object should be disabled by "Separate Comm Object"				
	parameter.					

4.2.1.2 Switch and Dim

ieneral	Rocker Operation	O Rocker O 2 Touch Button	
locker 1	Rocker Function	Switch And Dim	•
ocker 2	Mode Of Buttons	 Left Button Brighter(On) Right i Left Button Darker(Off) Right Bit 	Button Darker(O utton Brighter(O
	Long Press Duration	15	•
	Dimming Type	🔵 Start Stop 🧕 Step Wise	
	Step Value	1.56%	-
	Step Send Interval	1s	-
	Function Of LED	Status Indication	-
	Separate Comm Object	C Enable O Disable	



Rockers can be configured with switching and dimming capability. When configured as "Switch and Dim" rocker buttons will have two modes switch mode and dim mode. When rocker button touched shorter than time period specified in "Long Touch Duration" parameter, rocker button will act as a switch. In switch mode rocker buttons will behave as normal switches as explained in Chapter 4.1.1. When rocker buttons touched longer than "Long Touch Duration" rocker will enter "Dim mode". Dimming capability can be used in two different types "Start Stop" and "Step Wise". Which type to use can be configured in "Dimming Type" parameter.

Dimming - Start Stop Type

When rocker button touched (and not released) and touched duration exceeds "Long Touch Duration" time "Increase, %100" (When on button touched) or "Decrease, %100" (When off button touched) dimming level will be send using respective communication object. When button is released "Increase, Break" or "Decrease, Break" value will be sent to stop dimming operation.

Dimming - Step Wise Type

When rocker button touched (and not released) and touched duration exceeds "Long Touch Duration" time, a step value level configured in "Step Value" parameter will be send using respective communication object.

Until button is released same step value will be send periodically with a time interval defined in "Step Send Interval".



4.2.1.2.1 Parameters

Mode of Buttons Left Button Brighter(On) Right Button Darker(Off) Select which rocker button is on button and which rocker button is off button Long Touch Duration 300ms/ 400ms/ 500ms/ 600ms/ 800ms/ 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 10s Time interval to switch from "switch mode" to "dimming mode". Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently Off LED always off LED Permanently Off LED always off LED Permanently Off Status LED of last touched rocker button is on, another rocker button is on, if "Separate Comm Object" parameter selected as "Enable" status LED swill wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is on, if "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation In
Button Darker(Off) / Left Button Brighter(Off) Right Button Darker(On) button and which rocker button is off button Long Touch Duration 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Time interval to switch from "switch mode" to "dimming mode". Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 600ms / 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / Bs / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently Off LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object before changing state. Inverted Status Indication Status LED of last touched rocker button is on fi another rocker button is on. If "Separate Comm Object before changing state. Operation Indication Status LED of last touched rocker button is off, another rocker button is on, and ther confirmation from communication object before changing state.
/ Left Button Brighter(Off) Right Button Darker(On) button Long Touch Duration 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Time interval to switch from "switch mode" to "dimming mode". Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always off LED Permanently On LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LED swill wait for confirmation from communication object before changing state. Inverted Status Indication Status LeD of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker button is off, another rocker button is off, another rocker button is off, another ocker
Darker(On) Image: Construction Long Touch Duration 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Time interval to switch from "switch mode" to "dimming mode". Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LeD of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wai
Long Touch Duration 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 10s Time interval to switch from "switch mode" to "dimming mode". Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently Off LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker button is off, another rocker button is on. If "Separate Comm Object"
Duration 15 / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s mode" to "dimming mode". Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
/ 8s / 9s / 10s Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On Status LED of last touched rocker button is on, another rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off. another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
10s Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms / 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is on, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker button is off. another rocker button is on, another rocker button is on on from communication object before changing state.
Dimming Type Start Stop / Step Wise Select dimming type. (Chapter 4.2.1.2) Step Value %100 / %50 / %25 / %12.5 / %6.25 / %3.13 / % 1.56 Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
Step Value %100 / %50 / %25 / %12.5 / %6.25 / Visible when dimming type is Step Wise. Selects the dimming resolution that will be sending at every "Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / Visible when dimming type is Step Step Send Interval 300ms/ 400ms/ 500ms/ 600ms / 800ms / 15 / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / Visible when dimming type is Step Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
Step Value %100 / %50 / %25 / %12.5 / %6.25 / Visible when dimming type is Step %3.13 / % 1.56 Visible when dimming type is Step Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / Visible when dimming type is Step Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / Visible when dimming type is Step Step Send Interval 300ms/ 400ms/ 500ms/ 600ms / 0.5 s / 6s / 7s / Visible when dimming type is Step Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Inverted Status Indication Status LED of last touched rocker button is on. If "Separate Comm Object" on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication
%3.13 / % 1.56 Wise. Selects the dimming resolution that will be sending at every "Step Send Interval". Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s / 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is on, If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state.
Every Step Send Interval Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Wise. Selects the time interval to send dimming increase/decrease values Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
Step Send Interval 300ms/ 400ms/ 500ms/ 600ms/ 800ms / 1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s / 7s / 8s / 9s / 10s Visible when dimming type is Step Function of LED LED Permanently Off LED always off LED Permanently On LED always on Status Indication Status LED of last touched rocker button is on, another rocker button is off. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Inverted Status Indication Status LED of last touched rocker button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
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button is off, another rocker button is on. If "Separate Comm Object" parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
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parameter selected as "Enable" status LEDs will wait for confirmation from communication object before changing state. Operation Indication Status LED of the touched rocker
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from communication object before changing state. Operation Indication Status LED of the touched rocker
Operation Indication Status LED of the touched rocker
Operation Indication Status LED of the touched rocker
button will be on for the time period
selected at "Light Duration of LED"
parameter at "General" tab.
Separate Comm Enable / Disable Only visible when "Function of
Ubject LED" selected as "Status
Indication" or "Inverted Status
Indication . I his communication
for status LEDs. If selected as
"Enable" respective communication
"Enable" respective communication



4.2.1.2.2	Communication 0	bjects					
No	Object Name	Function	Data type	Flags			
1	Rocker1 – switch	On/Off	1 bit	CWT			
			DPT 1.001				
On/Off telegrams with	ill be send to group a	ddress that is linked	to this communication	n object.			
2	Rocker1 – dimming	Dim	4 bit	CWT			
DPT 3.007							
Dimming values will be send to group address that is linked to this communication object.							
3	Rocker1-Status	On/Off	1 bit	CWT			
	Comm.Obj.		DPT 1.002				
Confirmation for On/Off switch telegrams will be received from this communication object. If these							
communication object visible, it must link to an appropriate group address. Otherwise status LEDs will							
not function correctly. If status confirmation not to be used the communication object should be							
disabled by "Separa	te Comm Object" pa	rameter.	-				

Table 8

4.2.1.3 Shutter

eneral	Rocker Operation	Rocker 2 Touch Button	
ocker 1	Rocker Function	Shutter	*
ocker 2	Mode Of Buttons	O Left Up Right Down O Left D	own Right Up
	Control Type	Shutter/Venetian blind O Blin	d/Roller/Awning
	Function Of LED	LED Permanetly Off	•
	Long Press Duration	800ms	•

Figure 6

Selecting "Shutter" for "Rocker Operation" enables shutter operation for rocker buttons. Shutter functions can be configured to control two different shutter operations "Shutter/Venetian Blind" function or "Blind/Roller/Awning" function.

Shutter/Venetian Blind

Firstly, select which rocker button is used for "up" operation, which rocker button is used for "down" operation by "Mode of Buttons" parameter. Both buttons have two functions as "short touch" function and "long touch" function, "Long Touch Duration" parameter configures the limit time period for "long touch" operation. "Long Touch" will be used to move the blind upwards or downwards. "Short touch" has two different functions whether blind is moving or not. When blind is moving "short touch" acts as a stop button that stops the blinds movement, when blind is not moving "short touch" function is used to adjust lamella position.

	Short Touch	Long touch
Up Button – Blind Moving	Stop	Up
Down Button – Blind Moving	Stop	Down
Up Button – Blind Stopped	Lamella Down	Up
Down Button – Blind Stopped	Lamella Up	Down

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When "Down Button" long touched "Down" telegram will be transmitted using "Rocker1 – Shutter UP/DOWN" communication object and shutter will start moving downwards until it reaches "Bottom Position" or "STOP" telegram transmitted using "Rocker1 – STOP/Lamella Adj." communication object by short touching "Up Button" or "Down Button".

When blind is not moving "Up Button" and "Down Button" operate as lamella adjustment and respective telegram will be send using "Rocker1-STOP/Lamella Adj." communication object.

Blind/Roller/Awning Function

Selecting "Control Type" parameter as "Blind/Roller/Awning" disables lamella adjustment functions of rocker buttons. In this control type, when "Up Button" touched "Up" telegram will be send using "Rocker1 – shutter. UP/DOWN" communication object and touched again while blind is moving "STOP" telegram will be send using "Rocker1 – STOP/Lamella adj." communication object. When "Down Button" touched "DOWN" telegram will be sending using "Rocker1 – shutter. UP/DOWN" communication object and touched again while blind is moving "Rocker1 – STOP/Lamella adj." communication object and touched again while blind is moving "Rocker1 – STOP" telegram will be send using "Rocker1 – STOP/Lamella adj." communication object.

Parameter	Setting	Description
Mode of Buttons	Left Up Right Down	Select which rocker button is "Up
	Left Down Right Up	Button" and which rocker
		button is "Down Button".
Control Type	Shutter/Venetian Blind	Selects control type of blinds.
	Blind/Roller/Awning	Shutter/Venetian Blind function
		includes "Lamella Control" and
		Blind/Roller/Awning function
		does not include "Lamella
		Control".
Function of LED	LED Permanently Off	LED always off
	LED Permanently On	LED always on
	Status Indication	Visualize blind's state using
		status LEDs of up and down
		buttons. *[5]
	Operation Indication	Status LED of the touched
		rocker button will be on for
		the time period selected at
		"Light Duration of LED"
		parameter at "General" tab.
Long Touch Duration	300ms/ 400ms/ 500ms/ 600ms/	Time interval to switch from
	800ms / 1s / 1.2s / 1.5s/ 2s /	short touch to long touch
	3s / 4s / 5s / 6s / 7s / 8s / 9s /	
	10s	

4.2.1.3.1 Parameters

*[5] LED Function – Status Indication

Status indication operates the same way for "Shutter/Venetian Blind" and "Blind/Roller/Awning". LEDs status respective to blind's state is given below

	Up Button - Status LED	Down Button - Status LED
Moving upward	Blink	Off
Moving downward	Off	Blink
At top position	On	Off
At bottom position	Off	On
Stop between top - bottom	Off	Off

Table 11

When "Function of Led" selected as "Status Indication", "Top Position" and "Bottom Position" communication objects given below must be linked to the appropriate group addresses for the status LEDs to function correctly.

4.2.1.3.2 Communication Objects

No	Object Name	Function	Data Type	Flags		
1	Rocker1-shutter	Up/Down	1 bit	CWT		
	UP/DOWN		DPT 1.008			
This communication	n object will be used t	o start blind moveme	ent.			
2	Rocker1 –	Stop/Lamella adj.	1 bit	CWT		
	STOP/Lamella adj.		DPT 1.002			
When "Control Type	e" parameter is "Shut	ter/Venetian Blind" th	is communication ob	ject is used to stop		
movement of blind a	movement of blind and adjust lamella position, otherwise when "Control Type" parameter is					
"Blind/Roller/Awning" only used for stopping blind movement.						
3	Rocker1-Top	True/False	1 bit	CWT		
	Position		DPT 1.002			
This communication object should be linked to an appropriate group address that will be used to detect						
whether blind is at "	whether blind is at "Top Position" (True) or not (False).					
4	Rocker1-Bottom	True/False	1 bit	CWT		
	Position		DPT 1.002			
This communication object should be linked to an appropriate group address that will be used to detect						
whether blind is at "	whether blind is at "Bottom Position" (True) or not (False).					
Table 42						

4.2.1.4 Value Operation

neral	Rocker Operation	Rocker 2 Touch Button	
ker 1	Rocker Function	Value Operation	*
er 2	Function Of LED	LED Permanently Off	*
	Data Type	percent value [0% _ 100%]	*
	Left Button of Rocker		
	sent percent value [0%100%]	80	\$
	Right Button of Rocker		
	sent percent value [0%100%]	0	÷

Figure 7

Rocker buttons can be configured to send predefined values from different data types. Values selected for both rocker buttons will be transmitted over the same communication object.

4.2.1.4.1 Parameters

Parameter	Setting	Description
Function of Led	LED Permanently Off	LED always off
	LED Permanently On	LED always on
	Operation Indication	Status LED of the touched
		rocker button will be on for
		the time period selected at
		"Light Duration of LED"
		parameter at "General" tab.
Data Type	No Reaction	Select data type.
	1 bit value	
	1byte value [0…255]	
	Percent value [%0%100]	
	2 byte value [-	
	3276832767] 2 byte	
	value [065535]	
	4 byte value [floating point]	
Left Dutter of Decker	4 byte value [04294967295]	
	0//	
Sent value	0/1	Visible when "Data Type"
7	0.055	selected as "1 bit value".
I ransmitted value [0255]	0255	Visible when "Data Type"
		selected as "1 byte value".
Send percent value [%0%100]	080100	Visible when "Data Type"
	00700 0 00707	selected as "percent value".
I ransmitted value [-	-32768032767	Visible when "Data Type"
32/0832/07]		selected as 2 byte value [-
Transmitted value [0 65535]	0 65535	3270032707]. Visible when "Data Type"
	0000000	selected as "2 byte value
		[0 65535]"
Eloat decimal	-128 0 127	Visible when "Data Type"
		selected
		as "4 byte value [floating point]".

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Float rational	0 99	Visible when "Data Type" selected as "4 byte value [floating point]".		
Transmitted value [04294967295]	0 4294967295	Visible when "Data Type" selected as "4 byte value		
		[04294967295]".		
Right Button of Rocker – Operate the same way as Left Button of Rocker				

Table 13

4.2.1.4.2 Communication Objects

No	Object Name	Function	Data type	Flags
1	TouchButton1 – value [0,1]	True/False	1 bit DPT 1.002	CWT
	Enabled when "Data Type" selected as "1 bit	value"		
	TouchButton1- value [0255]	Send	1 byte DPT 5.010	CWT
	Enabled when "Data Type" selected as "1byte	e value [02	55]"	
	TouchButton1- value [0255]	Send	1 byte DPT 5.001	CWT
	Enabled when "Data Type" selected as "Perc	ent value [%	0%100]	
	TouchButton1- value [-3276832767]	Send	2 byte DPT 8.001	CWT
	Enabled when "Data Type" selected as "2 byt	e value [-327	76832767]"	
	TouchButton1- value [065535]	Send	2 byte DPT 7.001	CWT
	Enabled when "Data Type" selected as "2 byt	e value [0…6	65535]"	
	TouchButton1- value[temperature]	Send	4 byte DPT 14.068	CWT
	Enabled when "Data Type" selected as "4 byt	e value [float	ting point]	
	TouchButton1-value [04294967295]	Send	4 byte DPT 12.001	CWT
	Enabled when "Data Type" selected as "4 byt	e value [04	4294967295]"	•
2	TouchButton1-long – value [0,1]	True/False	1 bit DPT 1.002	CWT
	Enabled when "Long Touch Data Type" select	ted as "1 bit	value"	
	TouchButton1-long – value [0255]	Send	1 byte DPT 5.010	CWT
	Enabled when "Long Touch Data Type" select	ted as "1byte	value [0255]"	1
	TouchButton1– value [0255]	Send	1 byte DPT 5.001	CWT
	Enabled when "Long Touch Data Type" select	ted as "Perc	ent value [%0%100]	1
	TouchButton1 - long- value [-3276832767]	Send	2 byte DPT 8.001	CWT
	Enabled when "Long Touch Data Type" select	ted as "2 byt	e value [-3276832767]"	I
	TouchButton1- long -value [065535]	Send	2 byte DPT 7.001	CWT
	Enabled when "Long Touch Data Type" select	ted as "2 byt	e value [065535]"	I
	TouchButton1- long - value[temperature]	Send	4 byte DPT 14.068	CWT
	Enabled when "Long Touch Data Type" select	ted as "4 byt	e value [floating point]	·
	TouchButton1- long - value [04294967295]	Send	4 byte DPT 12.001	CWT
	Enabled when "Long Touch Data Type" select	ted as "4 byt	e value [04294967295]	9

4.2.2 Touch Buttons

Number of rockers should be selected in "General" tabs in parameters and should be chosen as compatible with the device that will be configured. Touch buttons are numbered from top to bottom – right to left, topmost right touch button as touch button 1, near it touch button 2, and so on. Touch buttons can be configured as 4 different operations and 1 function to disable touch button (No Function). Operation selection can be configured from "Touch Button N" (N: Touch button number) tab, visible when "Rocker Operation" selected as "2 Touch Buttons". Every function enables different parameters and communication objects that will be explained in the following chapters.

Parameter	Setting	Description
Touch Button Function	No Function	Disables the touch button
	Switch	Touch buttons can be used to
		send
		on/off telegrams. (For
		more information Chapter
		4.2.2.1)
	Switch and Dim	Touch buttons can send on/off
		and
		dimming telegrams. (For
		more information Chapter
		4.2.2.2)
	Shutter	Touch button can control
		shutter, venetian blind, blind,
		roller and awning. (For more
		information
		Chapter 4.2.2.3)
	Value Operation	Touch button can send
		predefined values from
		different data types.
		(Refer Section 4.2.2.4)

Table 15

Touch buttons also have status LEDs which can be configured to indicate state of the operation that is configured.

4.2.2.1 Switch

eral	Touch Button Function	Switch	•
ker 1	Command On Press	Toggle	•
ouch Button 1	Command On Release	No Command	•
	Function Of LED	Status Indication	*
ouch Button 2	Separate Comm Object	Enable O Disable	
:ker 2			

Figure 8

Selecting "Switch" as "Touch Button Function" enables to send 1 bit On(1)/Off(0) telegrams to the group address that is linked to respective communication object. Touching and releasing buttons can be assigned to different commands (On, Off, Toggle and No Command). Status LEDs can be configured to notify the current status of operation directly with buttons or using communication objects for confirmation to show current status.



4.2.2.1.1 Parameters

Parameter	Setting	Description
Command on Touch	On / Off / Toggle / No command	Selects button function when button
		touched.
Command on Release	On / Off / Toggle / No command	Selects button function when button
		released.
Function of LED	LED permanently Off	LED always Off
	LED permanently On	LED always On
	Status Indication	Last transmitted command "on" -> LED
		on Last transmitted command "off" ->
		LED off If "Separate Comm Object"
		enabled, status LEDs will wait for
		confirmation before changing status.
	Inverted Status Indication	Last transmitted command "on" -> LED
		off Last transmitted command "off" ->
		LED on If "Separate Comm Object"
		enabled, status LEDs will wait for
		confirmation before changing status.
	Operation Indication	Status LED of the touched touch button will
		be on for the time period selected at "Light
		Duration of LED" parameter at "General"
		tab.
		Last transmitted command value has no
		effect to the status led operation.
Separate Comm Object	Enable/Disable	Only visible when "Function of LED"
		selected as "Status Indication" or
		"Inverted Status Indication". This
		communication object is the
		input of confirmation for status LEDs. If
		selected "Enable" respective
		communication object should be linked
		to an appropriate group address.

Table 16

4.2.2.1.2 Communication Objects

No	Object Name	Function	Data Type	Flags
1	TouchButton1	switch	1 bit	CWT
			DPT 1.001	
On/Off telegrams w	ill be sent to group ad	ddress that is linked to	o this communication	object.
3	TouchButton1	Status Comm.Obj.	1 bit	CWT
			DPT 1.002	
Confirmation for On	/Off switch telegrams	s will be received fron	n this communication	object. If these
communications ob	ject visible, it must lin	ik to an appropriate g	roup address. Otherv	wise status LEDs will
not function correct	y. If status confirmati	on not to be used the	e communication obje	ect should be
disabled by "Separa	ate Comm Obiect" pa	rameter.		

4.2.2.2 Switch and Dim

General	Touch Button Function	Switch And Dim	*
Rocker 1	Dim Operation	Darker(ShortPress Off)	•
Touch Button 1	Long Press Time	500ms	•
	Dimming Type	Start Stop 💿 Step Wise	
Touch Button 2	Step Value	12.5%	•
Rocker 2	Step Send Interval	1s	•
	Function Of LED	Status Indication	*
	Separate Comm Object	Enable Disable	

When touch button function selected as "Switch and Dim" touch button can be configured in three different

ways to control brightness value.

	Short Touch	Long touch
Darker(Short Touch Off)	Off (%0)	Decrease, (%XX)
Brighter(Short Touch On)	On(%100)	Increase,(%XX)
Darker/Brighter(Short Touch	Toggle between	Decrease, (%XX) /
Toggle)	Darker/Brighter	Increase,(%XX)
	Table 18	

%XX values can have different values relative to the "Dimming Type" parameter. "Dimming Type" parameter allows two different types of dimming functionality "Start Stop" and "Step Wise".

Dimming - Start Stop Type

When touch button touched (and not released) and touched duration exceeds "Long Touch Duration" time "Increase, %100" (When button in Brighter mode) or "Decrease, %100" (When button in Darker mode) dimming level will be send using respective communication object. When button released "Increase, Break" or "Decrease, Break" value will be send.

Dimming - Step Wise Type

When touch button touched (and not released) and touched duration exceeds "Long Touch Duration" time, a step value level configured in "Step Value" parameter will be send using respective communication object. If button mode is "Darker", "Decrease, % [Step Value]", else button mode is "Brighter", "Increase, % [Step Value]" values will be send. Until button is released same step value will be send periodically with a time interval defined in "Step Send Interval".



4.2.2.2.1 Parameters

Parameter	Setting	Description
Dim Operation	Darker (Short Touch Off)	Select touch button dim operation.
	Brighter (Short Touch On)	(For more information Chapter
	Darker/Brighter (Short Touch	4.2.2.2)
	Toggle)	
Long Touch Time	300ms/ 400ms/ 500ms/ 600ms/	Time interval to switch from
	800ms /	"switch/toggle mode" to "dimming
	1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s /	mode".
	7s	
	/ 8s / 9s / 10s	
Dimming Type	Start Stop / Step Wise	Select dimming type. (For more
		information Chapter 4.2.2.2)
Step Value	%100 / %50 / %25 / %12.5 / %6.25 /	Visible when dimming type is Step
	%3.13 / % 1.56	Wise. Selects the dimming resolution
		that will be sending at every "Step
		Send Interval".
Step Send Interval	300ms/ 400ms/ 500ms/ 600ms/	Visible when dimming type is Step
	800ms /	Wise. Selects the time interval to
	1s / 1.2s / 1.5s/ 2s / 3s / 4s / 5s / 6s /	send dimming increase/decrease
	/S	values
Eurotion of LED	I ED Permanently Off	LED always off
	Status Indication	LED diways on
	Status indication	an Last transmitted command "off"
		LED off If "Separate Comm Object"
		enabled status I EDs will wait for
		confirmation before changing status
	Inverted Status Indication	Last transmitted command "on" -> LED
		off Last transmitted command "off" ->
		LED on If "Separate Comm Object"
		enabled status LEDs will wait for
		confirmation before changing status
	Operation Indication	Status LED of the touched touch
		button will be on for the time period
		selected at "Light Duration of LED"
		parameter at "General" tab.
Separate Comm	Enable / Disable	Only visible when "Function of
Object		LED" selected as "Status
- ,		Indication" or "Inverted Status
		Indication". This communication
		object is the input of
		confirmation for status LEDs. If
		selected "Enable" respective
		communication object should be
		linked to an appropriate group
		address.



4.2.2.2.2 Communication Objects

No	Object Name	Function	Data type	Flags
1	TouchButton1 –	On/Off	1 bit	CWT
	switch		DPT 1.001	
On/Off telegrams w	ill be sent to group ad	ddress that is linked t	o this communication	n object.
2	TouchButton1 –	Dim	4 bit	CWT
	dimming		DPT 3.007	
Dimming values wil	I be send to group ad	Idress that is linked to	o this communication	object.
3	TouchButton1-	On/Off	1 bit	CWT
	Status		DPT 1.002	
	Comm.Obj.			
Confirmation for Or	n/Off switch telegrams	s will be received fror	n this communication	object. If these
communications ob	ject visible, it must lir	nk to an appropriate g	group address. Other	wise status LEDs will
not function correct	ly. If status confirmati	ion not to be used the	e communication obje	ect should be
disabled by "Separa	ate Comm Object" pa	rameter.		

Table 20

4.2.2.3 Shutter

-.-. STx Touch button > Touch Button 1

eneral	Touch Button Function	Shutter	•
cker 1	Button Function	Up	
Touch Button 1	Control Type	O Shutter/Venetian blind O Bl	nd/Roller/Awning
	Function Of LED	Status Indication	-
Touch Button 2	Long Press Duration	300ms	
icker 2	Long Press> Up/Down, Short Pre	ess> Stop/Lamella Adi.	

Figure 10

Selecting "Shutter" for "Touch Button Function" enables shutter operation for touch buttons. Shutter functions can be configured to control two different shutter operations "Shutter/Venetian Blind" function or "Blind/Roller/Awning" function. In both functions touch button can be configured as 3 different button function; Up, Down and Toggle. When touch button selected as up or down, that button can only move the blind and lamella to the configured direction. For example, if configured as up button, touch button can be used to move the blind up and adjust the lamella down. If touch button configured as toggle button, single button can be used to move the blind up – down and adjust lamella up – down.

Shutter/Venetian Blind Function

When "Controller Type" configured as "Shutter/Venetian Blind", lamella operations of blind control will be enabled as "short touch" function of the touch button. Also, "Button Function" parameter enables the use of touch button 3 different ways;

Up: "Long Touch" moves the blind upwards; "Short Touch" operates two different ways, short touched while the blind is moving, stops the blind, short touched while the blind is not moving adjust the lamella position down.

Down: "Long Touch" moves the blind downwards; "Short Touch" operates two different ways, short touched while the blind is moving, stops the blind, short touched while the blind is not moving adjust the lamella position up.

Toggle: "Long Touch" moves the blind upwards or downwards toggling the last "Long Touch" action. For example, if last state was up, when touch button long touched, it will send "Down" telegram.

Every time touch button long touched it will toggle its last state. If touch button short touched while the blind is moving upward or downward "Short Touch" will stop the blind, if the blind is not moving "Short Touch" will adjust the lamella. Lamella adjustment will operate respective to the last state, for example if the last "Long Touch" action was up, then lamella will be adjusted down when touch button short touched and if the last "Long Touch" action was down, then lamella will be adjusted up when touch button short touched.

Blind/Roller/Awning Function

When "Controller Type" configured as "Blind/Roller/Awning Function" lamella operations of blind control will be disabled and "short touch" will only stop the movement of the blind. "Button Function" parameter enables the use of touch button 3 different ways;

Up: "Long Touch" moves the blind upwards; "Short Touch" stops the blind.

Down: "Long Touch" moves the blind downwards; "Short Touch" stops the blind.

Toggle: "Long Touch" action moves the blind upwards or downwards toggling the last "Long Touch"

action. For example, if last state was up, when touch button long touched it will send "Down" telegram.

Every time touch button long touched it will toggle its last state. "Short Touch" stops the blind whether it's moving upwards or downwards

Parameter	Setting	Description
Touch Button Function	Up / Down / Toggle	Chapter 4.2.2.3
Control Type	Shutter/Venetian Blind	Selects control type of blinds.
	Blind/Roller/Awning	Shutter/Venetian Blind function
		includes "Lamella Control" and
		Blind/Roller/Awning function
		does not include "Lamella
		Control".
Function of LED	LED Permanently Off	LED always off
	LED Permanently On	LED always on
	Status Indication	Visualize blind's state using
		status LEDs of up and down
		buttons. *[6]
	Operation Indication	Status LED of the touched
		rocker button will be on for the
		time period selected at "Light
		Duration of LED" parameter at
		"General" tab.
Long Touch Duration	300ms/ 400ms/ 500ms/ 600ms/	Time interval to switch from
	800ms / 1s / 1.2s / 1.5s/ 2s /	short touch to long touch
	3s / 4s / 5s / 6s / 7s / 8s / 9s /	
	10s	

4.2.2.3.1 Parameters



4.2.2.3.2 Communication Objects

*[6] LED Function – Status Indication

Status indication operates the same way for "Shutter/Venetian Blind" and "Blind/Roller/Awning". LEDs status respective to blind's state and "Button Function" configuration given below;

	Up Mode	Down Mode	Toggle Mode
Moving upward	Blink	Off	Blink
Moving downward	Off	Blink	Blink
At top position	Off	Off	Off
At bottom position	Off	Off	Off
Stop between top - bottom	Off	Off	Off

Table 22

When "Function of Led" selected as "Status Indication", "Top Position" and "Bottom Position" communication objects given below must be linked to the appropriate group addresses for the LEDs to function correctly.

4.2.2.4 Value Operation

ieneral	Touch Button Function	Value Operation	*
locker 1	Function Of LED	LED Permanently Off	*
Touch Button 1	Data Type	2 byte value [065535]	•
	transmitted value [065535]	0	\$
Touch Button 2	Long Press Request	No O Yes	
Rocker 2	Long Press Duration	15	*
	Long Press Data Type	2 byte value [-3276832767]	•
	Long Press		
	transmitted value [-3276832767]	0	<u>.</u>

Figure 11

Touch button can be configured to send predefined values from different data types. Additionally, a long touch request can be enabled to be used as a secondary value operation.



4.2.2.4.1 Parameters			
Parameter	Setting	Description	
Function of Led	LED Permanently Off	LED always off	
	LED Permanently On	LED always on	
	Operation Indication	Status LED of the touched	
	- 1	rocker button will be on for	
		the time period selected at	
		"Light Duration of LED"	
		parameter at "General" tab.	
Data Type	No Reaction	Select data type.	
	1 bit value		
	1byte value [0…255]		
	Percent value [%0…%100]		
	2 byte value [-3276832767]		
	2 byte value [065535]		
	4 byte value [floating point]		
	4 byte value [04294967295]		
Sent value	0/1	Visible when "Data Type"	
		selected as "1 bit value".	
Transmitted value [0255]	0255	Visible when "Data Type"	
		selected as "1 byte value".	
Send percent value	0 80 100	Visible when "Data Type"	
[%0%100]		selected as "percent value".	
Transmitted value	-32768 0 32767	Visible when "Data Type"	
[-3276832767]		selected as "2 byte value [-	
Transmitted value [0, 65525]	0 05505	32/6832/6/] [*] .	
	065535	visible when Data Type	
Float decimal	-128 0 127	Visible when "Data Type"	
		selected as "4 byte value	
		[floating point]".	
Float rational	099	Visible when "Data Type"	
		selected as "4 byte value	
		[floating point]".	
	04294967295	Visible when "Data Type"	
[04294967295]			
Long Touch Request	No / Yes	Enable/Disable long touch	
		duration	
Long Touch Duration	100ms / 1s / 10s / 1min / 10min	Select time period for long	
		touch operation	
Long Touch Data Type	No Reaction	Select data type.	
	1 bit value		
	1byte value [0255]		
	Percent value [%0…%100]		
	2 byte value [-3276832767]		
	2 byte value [065535]		
	4 byte value [floating point]		
	4 byte value [04294967295]		
Sent value	0/1	Visible when "Long Touch Data	
		I ype" selected as "1 bit value".	
I ransmitted value [0255]	0255	Visible when "Long Touch Data	
		I ype ² selected as "1 byte	
Send percent value	0 80 100	Value . Visible when "Long Touch Date	
[%0 %100]	000100	Type" selected as "percent	
[,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		value".	
	l		



Transmitted value [-	-32768032767	Visible when "Long Touch Data
3276832767]		Type" selected as "2 byte
-		value [- 3276832767]".
Transmitted value [065535]	0 65535	Visible when "Long Touch
		Data Type" selected as "2
		byte value [0…65535]".
Float decimal	-128 0 127	Visible when "Long Touch
		Data Type" selected as "4
		byte value [floating point]".
Float rational	0 99	Visible when "Long Touch
		Data Type" selected as "4
		byte value [floating point]".
Transmitted value	0 4294967295	Visible when "Long Touch
[04294967295]		Data Type" selected as "4
		byte value
		[04294967295]".