

## 20 S18 IR-UP Decoder 900B02

### Use of the application program

Product family: Push button  
Product type: 1-fold  
Product type: 2-fold  
Product type: 4-fold  
Manufacturer: Siemens

Name: Pushbutton UP 233, single with IR receiver  
DELTA profil  
Order no.: SWG1 233-2AB\_1

Name: Pushbutton UP 234, double with IR receiver  
DELTA profil  
Order no.: SWG1 234-2AB\_1

Name: Pushbutton UP 235, quadruple with IR receiver  
DELTA profil  
Order no.: SWG1 235-2AB\_1

Name: Pushbutton UP 285E, single with IR receiver  
DELTA style  
Order no.: SWG1 285-2EB\_1

Name: Pushbutton UP 286E, double with IR receiver  
DELTA style  
Order no.: SWG1 286-2EB\_1

Name: Pushbutton UP 287E, quadruple with IR receiver  
DELTA style  
Order no.: SWG1 287-2EB\_1

Name: Pushbutton UP 284E, quadruple with IR receiver  
DELTA ambiente  
Order no.: SWG1 284-2EB0\_

### Functional description

With the application program "20 S18 IR-UP Decoder 900B02", different variants of push buttons UP + IR can be assigned parameters for the following functions: switching, shutter operation, dimming, setting values and status display via LED.

The pushbutton with IR receiver has 1 to 4 rockers and 14 IR channels. The first up to four rockers (A, B, C, D) are designated as local rocker, the remaining 14 rockers (1-14) as IR rockers. Each rocker has an upper and lower contact and can be individually assigned parameters.

In contrast to the local rockers there are no fixed assignments for the IR rockers. It is therefore possible to assign an IR rocker to any rocker of an IR transmitter.

The rockers of an IR transmitter transfer the IR channel. All Siemens *instabus*® EIB IR transmitters also have a rotary switch at the back of the device. The combination of the position of the rotary switch and the rocker number of the transmitter determines the IR channel. Also refer to the descriptions for the IR hand-held and IR wall-mounted transmitters.

The respective function is set via the parameter "Function of rocker". Depending on the function that is set, the parameter window changes and the relevant parameters are displayed with default settings. The objects that are required for the setting are added to the object list and the object types of the respective push button are modified (e.g. from switching (1 bit) to dimming (4 bit)). In order to make the ETS layout clearer, the term "IR configuration 1" has been replaced by "1".

#### Switch

The switch function (On/Off/Toggle) which is carried out when the rocker is pressed or released is set via parameters. An 8 bit value can also be assigned to each rocker contact. The corresponding value is sent immediately when the rocker is pressed. It is therefore possible for example to set e.g. a dimming actuator to a defined value. It is also possible to assign a "bell function". When the rocker is pressed, the set "On/Off" signal is sent while the inverse signal is sent when the rocker is released.

#### Shutter

A distinction is made between a short and long push button action. After a short push button action, a switching telegram is sent which adjusts the louvres or stops any shutter movement. After a long push button action, the shutter is raised or lowered. It is possible to select between: upper contact "Up", lower contact "Down" and vice versa. Skylights and security gates etc. can therefore be controlled in both directions. In this case, the "Up" command corresponds to the "Off" command while the "Down" command corresponds to the "On" command.

#### Dimming

A distinction is made between a short and long push button action. A short push button action sends a corresponding switching command (On, Off or Toggle). If the push button is pressed for longer than the set time (duration of which can be set), a dimming command is sent. The functions of "Dimming with stop telegram" and "Dimming with cyclical sending" are available. If the "Dimming with stop telegram" function is selected, a command for 100% dimming is sent to the dimming object after a long push button action. When the rocker is released, a stop command is sent.

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If "Dimming with cyclical sending" is selected, dimming commands are sent at set intervals for the duration of the push button action, whereby the change in the brightness level (e.g. adjust by 1/8) can be assigned.

**Scene**

Using the "Scene" function, users are able to reprogram a scene module themselves without changing the project design in ETS i.e. they can assign other brightness values or switching states to the individual groups of the respective scene. Two scenes can be recalled by pressing the rocker briefly (e.g. upper contact: scene 1, lower contact: scene 2) while a long rocker operation is used to program them. The scene is recalled via a 1 bit switching command, whereby scene 1 is recalled with a "0" telegram and scene 2 is recalled with a "1" telegram. It is possible to specify in the parameters which telegrams are sent by the upper and lower rocker contacts. The scene is saved via a 1 bit switching command, whereby scene 1 is saved with a "0" telegram and scene 2 is saved with a "1" telegram. An application with this type of function must also be used in the scene module. Before programming a scene, the actuators concerned must be set to the required brightness values or switching states using the sensors provided. The scene modules that have been addressed are requested on receipt of a telegram to scan the current brightness values and switching states of the actuators and to store them in the corresponding scene. It is possible to specify the period that distinguishes a short and long push button action.

**Display LED**

The LEDs can permanently display "Off" or "On" or be linked with an object value.

If the LED is linked with an object value, the LED only lights up if the object value is "1". In addition, it is possible for the LED that is assigned to rocker A to signal the receipt of an IR telegram.

Exception: 4-fold rocker DELTA ambiente which has its own LED for this purpose.

**General****Parameters**

9	10	11	12	13	14
General	Rocker A	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
Type of push button	4-fold rocker				
Design	DELTA ambiente				
Orientation LED	Off				
Monitoring of long push button action	not active				

Parameters	Settings
Type of push button	1-fold rocker DELTA profil/style 2-fold rocker DELTA profil/style <b>4-fold rocker</b>
As this application program can be used for 4 different push buttons, it is necessary to set the correct push button interface before assigning the settings. If this parameter is adjusted at a later date, all the information that has previously been set (parameters, group addresses) is lost.	
Design	<b>DELTA profil/style</b> DELTA ambiente
There are 2 different variants for the 4-fold push button: DELTA profil and DELTA ambiente. They differ from each other in the assignment of the push buttons. There is also a fifth LED in the DELTA ambiente variant.	
Orientation LED (only for DELTA ambiente)	On <b>Off</b> Off with IR-Command indication On with IR-Command indication
The function of the centre LEDs is set with this parameter. The LED can be assigned to display permanently "Off" or "On". If "Off with IR-Command indication" is selected, the LED lights up briefly, if an IR telegram is received. If "On with IR-Command indication" is selected, the LED is extinguished briefly on receipt of an IR telegram.	
Monitoring of long push button action	not active <b>active</b>
This parameter determines whether there shall be a distinction between long and short push button actions. The time limit for detecting a long push button action can be set via "Long switch operation min.".	

**Note**

The functions and parameters of rockers A-D are identical.

**Switch****Communication objects**

Phys. Addr.		Program		
no.	Object name	Function	Type	
01.01.004	20 S18 IR-UP-Decoder 900B02			
0	Switch, Rocker A (Upper contact)	On	1 Bit	
1	Switch, Rocker A (Lower contact)	Off	1 Bit	
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**20 S18 IR-UP Decoder 900B02****Note:**

The view of the objects can be arranged individually i.e. this view can vary.

Obj	Object name	Function	Type	Flags
0	Switch, Rocker A (Upper contact)	On	1 Bit	CWT
This object serves as a switching object for the upper contact of rocker A. Depending on the parameter settings, either an "On" or an "Off" telegram is sent. If "Toggle" is selected, either an "On" or "Off" telegram is sent depending on the current switching state (toggling).				
1	Switch, Rocker A (Lower contact)	Off	1 Bit	CWT
This object serves as a switching object for the lower contact of rocker A. Depending on the parameter settings, either an "On" or an "Off" telegram is sent. If "Toggle" is selected, either an "On" or "Off" telegram is sent depending on the current switching state (toggling).				




**Parameters**

9	10	11	12	13	14
General	Rocker A	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
DELTA ambiente: small rocker left DELTA profil: outer left rocker Function of rocker A					
Upper contact		Switch / Value setting			
Lower contact		On			
LED		Off			
Indication of IR commands		no			

Parameters	Settings
DELTA ambiente: small rocker left	Switch / Value setting
DELTA profil: outer left rocker	Shutter
Function of rocker A	Dimming with stop telegram
	Dimming with cyclical sending
	Scene (recall / save)
The function of the rocker is set via this parameter. The "Rocker" parameter window changes depending on the function that is selected here and the relevant parameters are displayed with default settings.	
Upper contact (Lower contact)	On
	Off
	Toggle
	8-bit value
	press: On, release: Off
	press: Off, release: On
	disabled

Parameters	Settings
This parameter determines which switching value is sent via the corresponding switching object when the upper and lower contacts are pressed or released. "On": Pressing the contact sends an "On" telegram. There is no evaluation when the contact is released. "Off": Pressing the contact sends an "Off" telegram. There is no evaluation when the contact is released. "8-bit value": Pressing the contact causes an adjustable 8 bit value to be sent. In this setting, an additional parameter is displayed for defining the value. "Toggle": Pressing the contact causes the value in the switching object to be inverted. There is no evaluation when the contact is released. "press: On, release: Off": Pressing the contact causes an "On" telegram to be sent while an "Off" telegram is sent when the rocker is released (bell function). "press: Off, release: On": Pressing the contact causes an "Off" telegram to be sent while an "On" telegram is sent when the rocker is released (bell function). "disabled": No telegrams are sent when the contact is pressed.	
LED	On Off Object 0 . Object 35
The function of the LED of the respective rocker is defined in this parameter. The LED can either permanently display "Off" or "On" or can be linked with an object value. If the LED is linked with an object, the LED displays the status of the linked object. If the value of the object is "1", the LED lights up. Otherwise the LED remains unlit. Unused objects can be used as an LED object.	
Indication of IR commands	no yes
If the setting „Yes“ is enabled incoming IR commands will be indicated. (Parameters are only displayed with DELTA ambiente push buttons)	

**Shutter****Communication objects**

Phys. Addr.		Program		
	no.	Object name	Function	Type
	01.01.004	20 S18 IR UP-Decoder 900B02		
	0	Louvres, Rocker A	Open / Closed	1 Bit
	1	Shutter, Rocker A	Up / Down	1 Bit
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**Note:**

The view of the objects can be arranged individually i.e. this view can vary.

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Obj	Object name	Function	Type	Flags
0	Louvres, Rocker A	Open / Closed	1 Bit	CWT
This object serves as a switching object for louvre adjustment after a short push button action. In the default setting (see "Rocker A: Upper / Lower contact"), pressing the upper contact briefly opens the louvres by a step with an "Off" telegram while pressing the lower contact closes the louvres by a step with an "On" telegram.				
1	Shutter, Rocker A	Up / Down	1 Bit	CWT
This object serves as a switching object for shutter movement after a long push button action. The default setting applies (see parameter window "Rocker A: Upper / Lower contact"): pressing the upper contact raises the shutter with an "Off" telegram while the shutter is lowered with an "On" telegram when the lower contact is pressed. A short push button action during shutter movement halts the shutter.				

## Parameters




9	10	11	12	13	14
General	<b>Rocker A</b>	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
DELTA ambiente: small rocker left DELTA profil: outer left rocker Function of rocker A: <input type="text" value="Shutter"/>					
Upper / Lower contact: <input type="text" value="Up / Down"/>					
Long switch operation min.: <input type="text" value="0.5 seconds"/>					
LED: <input type="text" value="On"/>					
Indication of IR commands: <input type="text" value="no"/>					

Parameters	Settings
DELTA ambiente: small rocker left	Switch / Value setting
DELTA profil: outer left rocker	<b>Shutter</b>
Function of rocker A	Dimming with stop telegram Dimming with cyclical sending Scene (recall / save)
The function of the rocker is set via this parameter. The "Rocker" parameter window changes depending on the function that is selected here and the relevant parameters are displayed with default settings.	
Upper / Lower contact	Up / Down Down / Up
This parameter defines the switching command for the upper and lower contacts of the rocker. In the default setting, a short operation of the upper contact opens the louvres by a step with an "Off" telegram. Pressing the lower contact closes the louvres by a step with an "On" telegram. A long operation of the upper contact raises the shutter with an "Off" telegram while a long operation of the lower contact lowers the shutter with an "On" telegram.	

Parameters	Settings
Long switch operation min.	0.3; 0.4; <b>0.5</b> ; 0.6; 0.8; 1.0; 1.2; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 7.0 seconds
This parameter defines the time limit for a short/long push button action. If the contact is pressed for longer than the set period, the software detects a long push button action.	
LED	On Off Object 0 : : Object 35
The function of the LED of the respective rocker is defined in this parameter. The LED can either permanently display "Off" or "On" or can be linked with an object value. If the LED is linked with an object, the LED displays the status of the linked object. If the value of the object is "1", the LED lights up. Otherwise the LED remains unlit. Unused objects can be used as an LED object.	
Indication of IR commands	no yes
If the setting „Yes“ is enabled incoming IR commands will be indicated. (Parameters are only displayed with DELTA ambiente push buttons).	

## Dimming with stop telegram

## Communication objects

Phys. Addr.		Program		
no.	Object name		Function	Type
 01.01.004	20 S18 IR UP-Decoder 900B02			
 0	Dimming On/Off, Rocker A		On / Off	1 Bit
 1	Dimming, Rocker A		Brighter / Darker	4 Bit
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## Note:

The view of the objects can be arranged individually i.e. this view can vary.

Obj	Object name	Function	Type	Flags
0	Dimming On/Off, Rocker A	On / Off	1 Bit	CWT
This object serves as a switching object for rocker A after a short push button action. The default setting applies (see parameter window "Rocker A: Upper / Lower contact"): pressing the upper contact sends an "On" telegram while an "Off" telegram is sent when the lower contact is pressed. If "Toggle / Toggle" is selected, either an "On" or "Off" telegram is sent depending on the current switching state (toggling).				

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Obj	Object name	Function	Type	Flags
1	Dimming, Rocker A	Brighter / Darker	4 Bit	CT

This object serves as a dimming object for rocker A and sends a dimming telegram after a long push button action. The following applies: a long operation of the upper rocker contact sends a "Dim brighter" telegram while a "Dim darker" telegram is sent when the lower contact is pressed for a long period. A "Stop" telegram is sent when the push button is released.

## Parameters




9	10	11	12	13	14
General	<b>Rocker A</b>	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
DELTA ambiente: small rocker left DELTA profil: outer left rocker					
Function of rocker A		Dimming with stop telegram			
Upper / Lower contact		On / Off			
Long switch operation min.		0.5 seconds			
LED		On			
Indication of IR commands		no			

Parameters	Settings
DELTA ambiente: small rocker left	Switch / Value setting
DELTA profil: outer left rocker	Shutter
Function of rocker A	Dimming with stop telegram
	Dimming with cyclical sending
	Scene (recall / save)
The function of the rocker is set via this parameter. The "Rocker" parameter window changes depending on the function that is selected here and the relevant parameters are displayed with default settings.	
Upper / Lower contact	On / Off Toggle / Toggle
This parameter determines which switching value is sent via the object when the upper and lower contacts are pressed briefly. "On / Off": Pressing the upper contact causes an "On" telegram to be sent while an "Off" telegram is sent when the lower contact is pressed. "Toggle / Toggle": The value in the switching object is inverted when a contact is pressed.	
Long switch operation min.	0.3; 0.4; <b>0.5</b> ; 0.6; 0.8; 1.0; 1.2; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 7.0 seconds
This parameter defines the time limit for a short/long push button action. If the contact is pressed for longer than the set period, the software detects a long push button action.	

Parameters	Settings
LED	On Off Object 0 : Object 35
The function of the LED of the respective rocker is defined in this parameter. The LED can either permanently display "Off" or "On" or can be linked with an object value. If the LED is linked with an object, the LED displays the status of the linked object. If the value of the object is "1", the LED lights up. Otherwise the LED remains unlit. Unused objects can be used as an LED object.	
Indication of IR commands	no yes
If the setting „Yes“ is enabled incoming IR commands will be indicated. (Parameters are only displayed with DELTA ambiente push buttons).	

## Dimming with cyclical sending

## Communication objects

Phys. Addr.		Program		
	no.	Object name	Function	Type
	01.01.004	20 S18 IR UP-Decoder 900B02		
	0	Dimming On/Off, Rocker A	On / Off	1 Bit
	1	Dimming, Rocker A	Brighter / Darker	4 Bit
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## Note:

The view of the objects can be arranged individually i.e. this view can vary.

Obj	Object name	Function	Type	Flags
0	Dimming On/Off, Rocker A	On / Off	1 Bit	CWT
This object serves as a switching object for rocker A after a short push button action. The default setting applies (see parameter window "Rocker A: Upper / Lower contact"): pressing the upper contact sends an "On" telegram while an "Off" telegram is sent when the lower contact is pressed. If "Toggle / Toggle" is selected, either an "On" or "Off" telegram is sent depending on the current switching state (toggling).				
1	Dimming, Rocker A	Brighter / Darker	4 Bit	CT

## Application program description

March 2008

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Obj	Object name	Function	Type	Flags
		This object serves as a dimming object for rocker A and sends a dimming telegram after a long push button action. The following applies: a long operation of the upper rocker contact sends a "Dim brighter" telegram while a "Dim darker" telegram is sent when the lower contact is pressed for a long period at the rate specified in the parameter "Interval for cyclical sending".		

## Parameters

9	10	11	12	13	14
General	<b>Rocker A</b>	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
DELTA ambiente: small rocker left DELTA profil: outer left rocker					
Function of rocker A		Dimming with cyclical sending			
Upper / Lower contact		On / Off			
Long switch operation min.		0.5 seconds			
Interval for cyclical sending		0.5 seconds			
Step for dimming brighter		1/8			
Step for dimming darker		1/8			
LED		On			
Indication of IR commands		no			

Parameters	Settings
<b>DELTA ambiente: small rocker left</b>	Switch / Value setting
<b>DELTA profil: outer left rocker</b>	Shutter
<b>Function of rocker A</b>	Dimming with stop telegram <b>Dimming with cyclical sending</b> Scene (recall / save)
The function of the rocker is set via this parameter. The "Rocker" parameter window changes depending on the function that is selected here and the relevant parameters are displayed with default settings.	
<b>Upper / Lower contact</b>	On / Off Toggle / Toggle
This parameter determines which switching value is sent via the object when the upper and lower contacts are pressed briefly. "On / Off": Pressing the upper contact causes an "On" telegram to be sent while an "Off" telegram is sent when the lower contact is pressed. "Toggle / Toggle": The value in the switching object is inverted when a contact is pressed.	
<b>Long switch operation min.</b>	0.3; 0.4; <b>0.5</b> ; 0.6; 0.8; 1.0; 1.2; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 7.0 seconds
This parameter defines the time limit for a short/long push button action. If the contact is pressed for longer than the set period, the software detects a long push button action.	

Parameters	Settings
<b>Interval for cyclical sending</b>	0.3; 0.4; <b>0.5</b> ; 0.6; 0.8; 1.0; 1.2; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 7.0 seconds
The interval for cyclical sending after a long push button action is set here. The bus load should be taken into consideration when setting the cyclical time period.	
<b>Step for dimming brighter</b>	1/1 1/2 1/4 <b>1/8</b> 1/16 1/32 1/64
<b>Step for dimming darker</b>	1/1 1/2 1/4 <b>1/8</b> 1/16 1/32 1/64
This parameter determines the change in brightness that a dimming telegram causes when a long push button action is detected. In the setting "adjust by 1/8" for example, 8 dimming telegrams must be sent in order to dim from 0% to 100%.	
<b>LED</b>	On Off Object 0 . . Object 35
The function of the LED of the respective rocker is defined in this parameter. The LED can either permanently display "Off" or "On" or can be linked with an object value. If the LED is linked with an object, the LED displays the status of the linked object. If the value of the object is "1", the LED lights up. Otherwise the LED remains unlit. Unused objects can be used as an LED object.	
<b>Indication of IR commands</b>	no <b>yes</b>
If the setting „Yes“ is enabled incoming IR commands will be indicated. (Parameters are only displayed with DELTA ambiente push buttons).	

## Scene

## Communication objects

Phys. Addr.	Program			
no.	Object name	Function	Type	
01.01.004	20 S18 IR UP-Decoder 900B02			
0	Scene, Rocker A	Recall	1 Bit	
1	Scene, Rocker A	Save	1 Bit	
...	...	...	...	

**20 S18 IR-UP Decoder 900B02****Note:**

The view of the objects can be arranged individually i.e. this view can vary.

Obj	Object name	Function	Type	Flags
0	Scene, Rocker A	Recall	1 Bit	CWT
The telegrams for recalling the scene are sent via the group address in this object. On receipt of the telegram, the scene module sends the stored brightness values of the scene via the group objects to the switch/dim actuators that have been addressed.				
1	Scene, Rocker A	Save	1 Bit	CWT
The telegrams for saving the scene are sent via the group address in this object to the corresponding scene module.				

**Parameters**

9	10	11	12	13	14
General	<b>Rocker A</b>	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
DELTA ambiente: small rocker left DELTA profil: outer left rocker					
Function of rocker A			Scene (recall / save)		
Upper / Lower contact			0 / 1		
Start to save scene at			5.0 seconds		
LED			On		
Indication of IR commands			no		

Parameters	Settings
DELTA ambiente: small rocker left	Switch / Value setting Shutter
DELTA profil: outer left rocker	Dimming with stop telegram Dimming with cyclical sending
Function of rocker A	Scene (recall / save)
The function of the rocker is set via this parameter. The "Rocker" parameter window changes depending on the function that is selected here and the relevant parameters are displayed with default settings.	
Upper / Lower contact	0 / 1 1 / 0

Parameters	Settings
This parameter defines the sending signal when the rocker contacts are pressed. "0 / 1": When the upper contact is pressed briefly, scene 1 is set with a "0" telegram by the scene modules that have been addressed. In the same way, scene 2 is set when the lower contact is pressed briefly. After a long push button action, these scene modules are requested on receipt of a telegram to scan the current brightness values and switching states of the actuators and to store them in the corresponding scene. "1 / 0": The assignment of scenes to the rocker contacts is inverted in this setting.	
Start to save scene at	0.3; 0.4; 0.5; 0.6; 0.8; 1.0; 1.2; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 7.0 seconds
This parameter indicates the length of time that the rocker must be operated to distinguish between recalling the scene and switching to programming mode.	
LED	On Off Object 0 . . Object 35
The function of the LED of the respective rocker is defined in this parameter. The LED can either permanently display "Off" or "On" or can be linked with an object value. If the LED is linked with an object, the LED displays the status of the linked object. If the value of the object is "1", the LED lights up. Otherwise the LED remains unlit. Unused objects can be used as an LED object.	
Indication of IR commands	yes no
If the setting „Yes“ is enabled incoming IR commands will be indicated. (Parameters are only displayed with DELTA ambiente push buttons).	



## 20 S18 IR-UP Decoder 900B02

## IR configuration 1

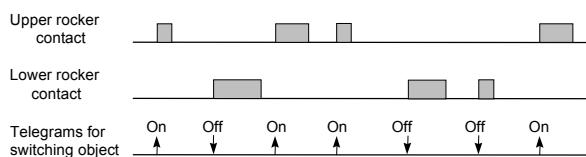
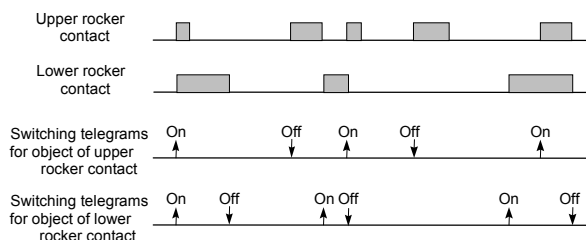
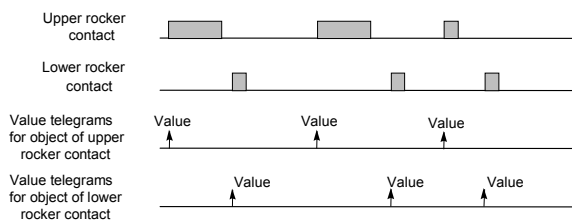
9	10	11	12	13	14
General	Rocker A	Rocker B	Rocker C	Rocker D	1 2 3 4 5 6 7 8
IR-Channel number (0-63) (64 = disabled)			0		
Function			Switch / Value setting		
Upper contact			On		
Lower contact			Off		

Parameters	Settings
IR-Channel number	0
This parameter defines which IR channel should be selected for the configured function to be carried out. The function is only executed if the IR channel of a received telegram corresponds to that of the configured telegram. If the same IR channel is set several times in the parameters (1-14), only those on the parameter pages with the lowest values are processed. Value range: (0-63)	

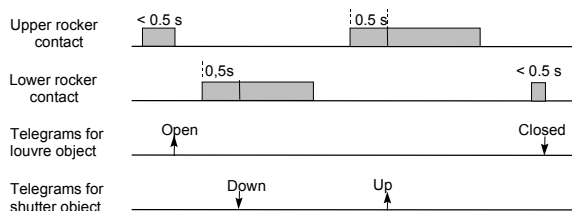
**Note:**

The parameters for IR configuration are identical to those for the rocker. There is however the additional parameter "IR-Channel number" available.

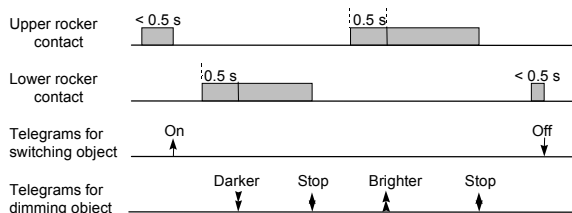
## Timing diagrams: Examples of push buttons

1. Configured for switch function:  
upper "On", lower "Off"2. Configured for switch function:  
upper "Toggle", lower "press: On, release: Off"3. Configured for switch function:  
upper "8 bit value", lower "8 bit value"

## 4. Configured for shutter: upper "Up", lower "Down"



## 5. Configured for dimming with stop telegram



## 6. Configured for dimming with cyclical sending

