

Binairy format:

<SOF-SID10...SID0-RTR-IDE-r0-DLC3...0-DATABYTE1...DATABYTEn-CRC15...CRC1-CRCDEL-ACK-ACKDEL-EOF7...EOF1-IFS3...IFS1>

bits	Description
SOF	Start Of Frame (always 0)
SID10 & SID9	Priority (00: highest 11: lowest priority)
SID8SID1	Address
SID0	Always 0
RTR	Remote Transmit Request
IDE	Identifier Extension (always 0)
r0	reserved (always 0)
DLC3DLC0	Data Length Code (08)
Databyte1	Command
Databyte2	Parameter
Databyte3	Parameter
Databyte4	Parameter
Databyte5	Parameter
Databyte6	Parameter
Databyte7	Parameter
Databyte8	Parameter
CRC15CRC1	Cyclic Redundancy Checksum
CRCDEL	CRC Delimiter (always 1)
ACK	Acknowledge slot (transmit 1 readback 0 if received correctly)
ACKDEL	Acknowledge Delimiter (always 1)
EOF7EOF1	End Of Frame (always 1111111)
IFS3IFS1	InterFrame Space (always 111)

The dimmer module can transmit the following commands:

- Clears LEDs on a push button module
- Sets LEDs on a push button module
- Blinks LEDs slowly on a push button module
- Blinks LEDs fast on a push button module

The dimmer module can transmit the following messages:

- Dimmer status
- Module type
- Dimmer switch status
- Dimmer slider status
- Bus error counter status
- First, second and third part of the dimmer name
- Memory data
- Memory data block (4 bytes)

The dimmer module can receive the following messages:

- Push button status
- Slider status

The dimmer module can receive the following commands:

- Set dimmer value
- Set dimmer at last used dimvalue
- Start dimmer timer
- Stop dimming
- Forced off
- Cancel forced off
- Forced on
- Cancel forced on
- Inhibit
- Cancel inhibit
- Dimmer status request
- Clear Push button Led
- Module type request
- Bus error counter status request

- Dimmer name request
- Read memory data
- Read memory data block (4 bytes)
- Memory dump request
- Write memory data
- Write memory data block (4 bytes)

Transmits the dimmer switch status:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND PUSH BUTTON STATUS (H'00')

DATABYTE2 = Dimmer channel just switched on (1 = just pressed / switched on)

DATABYTE3 = Dimmer channel just switched off (1 = just released / switched off)

DATABYTE4 = 0

	Databyte2	Databyte3	Databyte4
Dimmer just switched on	B'00000001'	B'00000000'	B'00000000'
Dimmer just switched off	B'00000000'	B'00000001'	B'00000000'

Transmits dimmer slider status:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND SLIDER STATUS (H'0F')

DATABYTE2 = Dimmer slider channel (H'01')

DATABYTE3 = Dimmer value 0...100% (slider status)

DATABYTE4 = H'00'

Transmit: Clears LEDs on a push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the push button module for clearing LEDs

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_CLEAR_LED (H'F5')

DATABYTE2 = LED bit numbers (1 = clear LED)

Transmit: Sets LEDs on a push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the push button module for setting LEDs on

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_SET_LED (H'F6')

DATABYTE2 = LED bit numbers (1 = set LED)

Transmit: Blinks LEDs slowly on a push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the push button module for slowly blinking LEDs

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND SLOW BLINKING LED (H'F7')

DATABYTE2 = LED bit numbers (1 = slow blink LED)

Transmit: Blinks LEDs fast on a push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the push button module for fast blinking LEDs

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_FAST_BLINKING_LED (H'F8')

DATABYTE2 = LED bit numbers (1 = fast blink LED)

Transmits the dimmer status:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 8 databytes to send

DATABYTE1 = COMMAND_DIMMERCONTROLLER_STATUS (H'B8')

DATABYTE2 = Dimmer channel (H'01')

DATABYTE3 = Dimmer status

Contents	Status	
B'xxxxxx00'	Dimmer normal running	
B'xxxxxx01'	Dimmer inhibited	
B'xxxxxx10'	Dimmer forced on	
B'xxxxxx11'	Dimmer disabled	
B'xxxx00xx'	No errors	
B'xxxx01xx'	Load not dimmable	
B'xxxx10xx'	Thermal alarm	
B'xxxx11xx'	Thermal protect	
B'xxx0xxxx'	Dimmer for resistive load	
B'xxx1xxxx'	Dimmer for inductive load	
B'000xxxxx'	Dimmer temp. < 26°	
B'001xxxxx'	Dimmer temp. 27°39°	
B'010xxxxx'	Dimmer temp. 40°51°	
B'011xxxxx'	Dimmer temp. 52°64°	
B'100xxxxx'	Dimmer temp. 65°77°	
B'101xxxxx'	Dimmer temp. 78°90°	
B'110xxxxx'	Dimmer temp. 90°102°	
B'111xxxxx'	Dimmer temp. > 103°	

 $DATABYTE\overline{4} = Dimvalue (0 to 100\%)$

DATABYTE5 = Led status

Contents	Mode
B'00000000'	LED off
B'10000000'	LED on
B'01000000'	LED slow blinking
B'00100000'	LED fast blinking
B'00010000'	LED very fast blinking

DATABYTE6 = high byte of current delay time

DATABYTE7 = mid byte of current delay time

DATABYTE8 = low byte of current delay time

Remark: [DATABYTE5][DATABYTE6][DATABYTE7] contain a 24-bit time in seconds

Transmits the module type:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 7 databytes to send

DATABYTE1 = COMMAND_MODULE_TYPE (H'FF')

DATABYTE2 = VMBDMI type (H'15')

DATABYTE3 = High byte of serial number

DATABYTE4 = Low byte of serial number

DATABYTE5 = Memorymap version

DATABYTE6 = Build year

DATABYTE7 = Build week

Transmit: Bus error counter status

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND BUSERROR COUNTER STATUS (H'DA')

DATABYTE2 = Transmit error counter

DATABYTE3 = Receive error counter

DATABYTE4 = Bus off counter

Transmits the first part of the dimmer name:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 8 databytes to send

DATABYTE1 = COMMAND DIMMER NAME PART1 (H'F0')

DATABYTE2 = Dimmer channel (H'01')

DATABYTE3 = Character 1 of the dimmer name

DATABYTE4 = Character 2 of the dimmer name

DATABYTE5 = Character 3 of the dimmer name

DATABYTE6 = Character 4 of the dimmer name

DATABYTE7 = Character 5 of the dimmer name

DATABYTE8 = Character 6 of the dimmer name

Transmits the second part of the dimmer name:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 8 databytes to send

DATABYTE1 = COMMAND DIMMER NAME PART2 (H'F1')

DATABYTE2 = Dimmer channel (H'01')

DATABYTE3 = Character 7 of the dimmer name

DATABYTE4 = Character 8 of the dimmer name

DATABYTE5 = Character 9 of the dimmer name

DATABYTE6 = Character 10 of the dimmer name

DATABYTE7 = Character 11 of the dimmer name

DATABYTE8 = Character 12 of the dimmer name

Transmits the third part of the dimmer name:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 6 databytes to send

DATABYTE1 = COMMAND_DIMMER_NAME_PART3 (H'F2')

DATABYTE2 = Dimmer channel (H'01')

DATABYTE3 = Character 13 of the dimmer name

DATABYTE4 = Character 14 of the dimmer name

DATABYTE5 = Character 15 of the dimmer name

DATABYTE6 = Character 16 of the dimmer name

Remarks:

Unused characters contain H'FF'.

Transmits the memory data:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND_MEMORY_DATA (H'FE')

DATABYTE2 = High memory address (H'00')

DATABYTE3 = LOW memory address (H'00'...H'FF')

DATABYTE4 = memory data

Transmits memory data block (4 bytes):

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND_MEMORY_DATA_BLOCK (H'CC') DATABYTE2 = High start address of memory block

DATABYTE3 = LOW start address of memory block

DATABYTE4 = memory data1

DATABYTE5 = memory data2

DATABYTE6 = memory data3

DATABYTE7 = memory data4

Remark: address range: H'0000' to H'00FC'

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'Push button status' received:
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SID10-SID9 = 00 (highest priority)

SID8...SID1 = Address of the push button module

RTR = 0

DLC3...DLC0 = 4 databytes received

DATABYTE1 = COMMAND PUSH BUTTON STATUS (H'00')

DATABYTE2 = Push buttons \overline{j} ust pressed (1 = just pressed)

DATABYTE3 = Push buttons just released (1 = just released)

DATABYTE4 = Push buttons long pressed (1 = longer than 0.85s pressed)

'Slider status' received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Address of the slider module

RTR = 0

DLC3...DLC0 = 4 databytes received

DATABYTE1 = COMMAND SLIDER STATUS (H'0F')

DATABYTE2 = Slider channel

DATABYTE3 = Slider status (0...100%)

DATABYTE4 = don't care

'Clear LED' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the push button module

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND CLEAR LED (H'F5')

DATABYTE2 = LEDs to clear (a one clears the corresponding LED)

'Set dim value' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND SET DIMVALUE (H'07')

DATABYTE2 = Dimmer channel $(\overline{H'}01')$

DATABYTE3 = Dimvalue (0 to 100%)

DATABYTE4 = high byte of dimspeed

DATABYTE5 = low byte of dimspeed

Remark: [DATABYTE4][DATABYTE5] contains a 16-bit time in seconds needed for dimming to the desired value.

'Set at last used dimvalue' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND_RESTORE_LAST_DIMVALUE (H'11')

DATABYTE2 = Dimmer channel (H'01')

DATABYTE3 = Don't care

DATABYTE4 = high byte of dimspeed

DATABYTE5 = low byte of dimspeed

Remark: [DATABYTE4][DATABYTE5] contains a 16-bit time in seconds needed for dimming to the desired value.

'Stop dimming' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND STOP DIMMING (H'10')

DATABYTE2 = Dimmer channel (H'01')

'Start dimmer timer' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND_START_DIMMER_TIMER (H'08')

DATABYTE2 = Dimmer channel $(H'0\overline{1'})$

DATABYTE3 = high byte of time-out time

DATABYTE4 = mid byte of time-out time

DATABYTE5 = low byte of time-out time

Remark: [DATABYTE3][DATABYTE4][DATABYTE5] contains a 24-bit time-out time in seconds.

If the time-out parameter contains zero then no timer starts.

If the time-out parameter contains H'FFFFFF' then the light switches permanently on (no time-out).

'Forced off' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND FORCED OFF (H'12')

DATABYTE2 = Dimmer channel

Contents	Dimmer channel	
B'00000001'	Channel 1	

DATABYTE3 = high byte of delay time

DATABYTE4 = mid byte of delay time

DATABYTE5 = low byte of delay time

Remark:

[DATABYTE3][DATABYTE4][DATABYTE5] contain a 24-bit time in seconds

The command will be skipped when the time parameter contains zero.

When the time parameter contains H'FFFFFF' then the dimmer is permanently forced off.

'Cancel forced off' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND CANCEL FORCED OFF (H'13')

DATABYTE2 = Dimmer channel

Contents	Dimmer channel
B'00000001'	Channel 1

'Forced on' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND FORCED ON (H'14')

DATABYTE2 = Dimmer channel

Contents	Dimmer channel
B'00000001'	Channel 1

DATABYTE3 = high byte of delay time

DATABYTE4 = mid byte of delay time

DATABYTE5 = low byte of delay time

Remark:

[DATABYTE3][DATABYTE4][DATABYTE5] contain a 24-bit time in seconds

The command will be skipped when the time parameter contains zero or the channels are already forced off.

When the time parameter contains H'FFFFFF' then the dimmer is permanently forced on.

'Cancel forced on' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND_CANCEL_FORCED_ON (H'15')

DATABYTE2 = Dimmer channel

Contents	Dimmer channel	
B'00000001'	Channel 1	

'Inhibit' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND INHIBIT (H'16')

DATABYTE2 = Dimmer channel

Contents	Dimmer channel
B'00000001'	Channel 1

DATABYTE3 = high byte of delay time

DATABYTE4 = mid byte of delay time

DATABYTE5 = low byte of delay time

Remark:

[DATABYTE3][DATABYTE4][DATABYTE5] contain a 24-bit time in seconds

The command will be skipped when the time parameter contains zero or the channels are already forced off/on.

When the time parameter contains H'FFFFFF' then the dimmer is permanently inhibited.

'Cancel inhibit' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND CANCEL INHIBIT (H'17')

DATABYTE2 = Dimmer channel

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	Contents	Dimmer channel	
	B'00000001'	Channel 1	

'Dimmer status request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND_DIMMER_STATUS_REQUEST (H'FA')

DATABYTE2 = Dimmer channel (H'01')

'Module type request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 1

DLC3...DLC0 = 0 databytes received

'Bus error counter status request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 1 databytes to send

DATABYTE1 = COMMAND BUS ERROR CONTER STATUS REQUEST (H'D9')

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'Dimmer name request' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 2 databytes received
   DATABYTE1 = COMMAND DIMMER NAME REQUEST (H'EF')
   DATABYTE2 = Dimmer channel (H'01')
'Read data from memory' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 3 databytes received
   DATABYTE1 = COMMAND READ DATA FROM MEMORY (H'FD')
   DATABYTE2 = High memory address (H'00')
   DATABYTE3 = LOW memory address (H'00'...H'FF')
'Memory dump request' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 1 databytes received
   DATABYTE1 = COMMAND MEMORY DUMP REQUEST (H'CB')
'Read data block from memory' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 3 databytes received
   DATABYTE1 = COMMAND READ MEMORY BLOCK (H'C9')
   DATABYTE2 = High memory address
   DATABYTE3 = LOW memory address
   Remark: address range: H'0000' to H'00FC'
'Write data to memory' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 4 databytes received
   DATABYTE1 = COMMAND_WRITE_DATA_TO_MEMORY (H'FC')
   DATABYTE2 = High memory address (H'00')
   DATABYTE3 = LOW memory address (H'00'...H'FF')
   DATABYTE4 = memory data to write
   Remark: Wait at least 10ms for sending a next command on the velbus.
'Write memory block' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 7 databytes received
   DATABYTE1 = COMMAND_WRITE_MEMORY_BLOCK (H'CA')
   DATABYTE2 = High memory address
   DATABYTE3 = LOW memory address
   DATABYTE4 = memory databyte1 to write
   DATABYTE5 = memory databyte2 to write
   DATABYTE6 = memory databyte3 to write
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Remark

Wait for 'memory data block' feedback before sending a next command on the velbus.

Address range: H'0000' to H'00FC'

DATABYTE7 = memory databyte4 to write

Memory map:

Address	Contents	Address	Contents
H'0000'	Push button 1 module address	H'0001'	Push button 1 bit number
H'0002'	Push button 1 action	H'0003'	Push button 1 first time parameter
H'0004'	Push button 1 second time parameter	H'0005'	Push button 1 third time parameter
H'0006'	Push button 2 module address	H'0007'	Push button 2 bit number
H'0008'	Push button 2 action	H'0009'	Push button 2 first time parameter
H'000A'	Push button 2 second time parameter	H'000B'	Push button 2 third time parameter
H'00D8'	Push button 37 module address	H'00D9'	Push button 37 bit number
H'00DA'	Push button 37 action	H'00DB'	Push button 37 first time parameter
H'00DC'	Push button 37 second time parameter	H'00DD'	Push button 37 third time parameter
H'00DE'	Preset 1 (25%) dimvalue	H'00DF'	Preset 2 (50%) dimvalue
H'00E0'	Preset 3 (75%) dimvalue	H'00E1'	Preset 4 (100%) dimvalue
H'00E2'	Preset 5 (75%) dimvalue	H'00E3'	Preset 6 (50%) dimvalue
H'00E4'	Preset 7 (25%) dimvalue	H'00E5'	Preset 8 (255) dimvalue
H'00E6'	Preset 9 (255) dimvalue	H'00E7'	Preset 10 (255) dimvalue
H'00E8'	Preset 11 (255) dimvalue	H'00E9'	Preset 12 (255) dimvalue
H'00EA'	Preset 13 (255) dimvalue	H'00EB'	Preset 14 (255) dimvalue
H'00EC'	Preset dimvalue terminator	H'00ED'	Dimmer for resistive or inductive load
H'00EE'	Dim start delay	H'00EF'	Dim switch off delay
H'00F0'	Dimmer name character 1	H'00F1'	Dimmer name character 2
H'00FE'	Dimmer name character 15	H'00FF'	Dimmer name character 16

Remark: Unused locations contain H'FF' Preset dimvalues: 0...100% or 255 for end of preset table

Preset dimvalue terminator: H'FF' Dimmer for resistive load: H'00' Dimmer for inductive load: H'01'

Dim start delay (default 0s) & Dim switch off delay (default 0s)

Contents	Delay
0	0s
1	0.013s
2	0.026s
255	3.315s

Mode number	Action			
0	Momentary	-	-	-
1	Off	-	-	-
2	'Off' with timers disabled	-	-	-
3	'Off' with timers disabled at short press	_	_	_
4	'Off' with timers disabled at long press	_	_	_
5	Slow off	Dim down time	-	-
6	On	-	_	_
7	'On' with timers disabled	-	-	-
8	'On' with timers disabled at short press	-	-	-
9	'On' with timers disabled at long press	-	-	-
10	Slow on	Dim up time	-	-
11	Toggle	-	-	-
12	'Toggle' with timers disabled	-	-	-
13	'Toggle' with timers disabled at short press	-	-	-
14	'Toggle' with timers disabled at long press	-	-	-
15	Slow on/off	Dim up time	Dim down time	-
16	Start/stop timer	Timeout	-	-
17	Start/stop timer with slow on/off	Timeout	Dim up time	Dim down time
18	Restartable timer	Timeout	- '	-
19	Restartable timer with slow on/off	Timeout	Dim up time	Dim down time
20	Non restartable timer	Timeout	-	-
21	Non restartable timer with slow on/off	Timeout	Dim up time	Dim down time
22	Slow on at press, slow off at release + timeout	Timeout	Dim up time	Dim down time
23	Dim up	Timeout	-	-
24	Dim up at long press, on at short press	Timeout	-	-
25	Dim up at long press, memory at short press	Timeout	-	-
26	Dim down	Timeout	-	-
27	Dim down at long press, off at short press	Timeout	-	-
28	Dim	Timeout	-	-
29	Dim at long press, on or off at short press	Timeout	-	-
30	Dim at long press, memory or off at short press	Timeout	-	-
31	Atmospheric dimvalue	Timeout	Dim time	Dim value
32	Slider dimmer	-	-	-
33	Multi step dimmer	Timeout	Dim time	-
34	Disable at closed switch	-	-	-
35	Disable at opened switch	-	-	-
36	Disable at pressing push button	Timeout	-	-
37	Toggle disable at pressing push button	Timeout	-	-
38	Cancel disable at pressing push button	-	-	-
39	Forced 'On' at closed switch	-	-	-
40	Forced 'On' at opened switch	-	-	-
41	Forced 'On' at pressing push button	Timeout	-	-
42	Toggle forced 'On' at pressing push button	Timeout	-	-
43	Cancel Forced 'On' at pressing push button	-	-	-
44	Inhibit at closed switch	-	-	-
45	Inhibit at opened switch	-	-	-
46	Inhibit at pressing push button	Timeout	-	-
47	Toggle inhibit at pressing push button	Timeout	-	-
48	Cancel inhibit at pressing push button	-	-	-

Time parameter	Time or dim time
0	No timer or fastest dim time
1	1s
2	2s
119	1min59s
120	2min
121	2min15s
131	4min45s
132	5min
133	5min30s
181	29min30s
182	30min
183	31min
211	59min
212	1h
213	1h15min
227	4h45min
228	5h
229	5h30min
237	9h30min
238	10h
239	11h
251	23h
252	1d
253	2d
254	3d
255	infinite

The dim time is limited to one day