

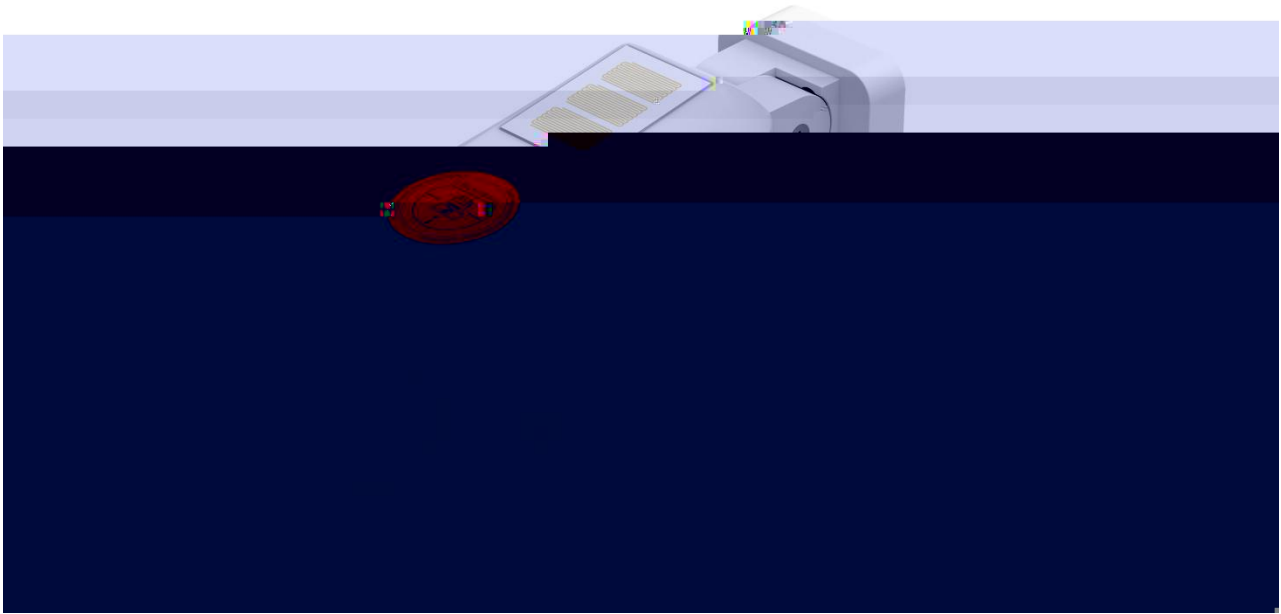


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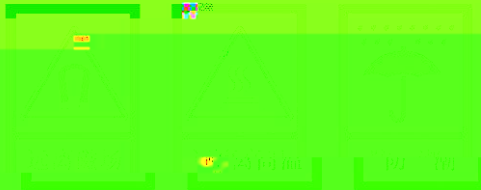
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# 注意事项

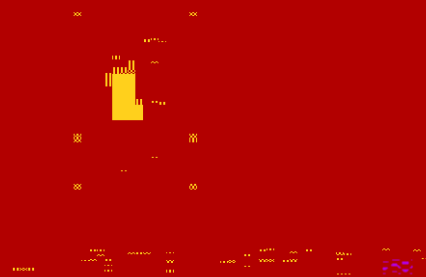
1、请远离强磁场、高温、潮湿等环境。



2、不要将设备摔落在地上或使之受到强力冲击；



3、不要将设备放在有腐蚀性物质的地方。



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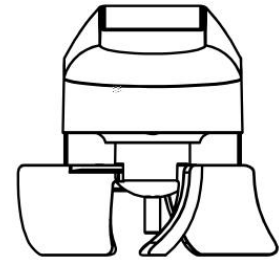
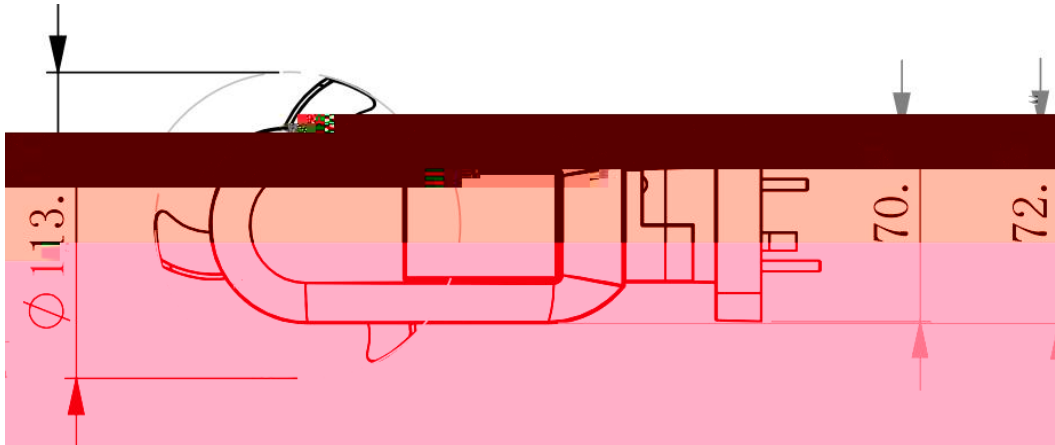
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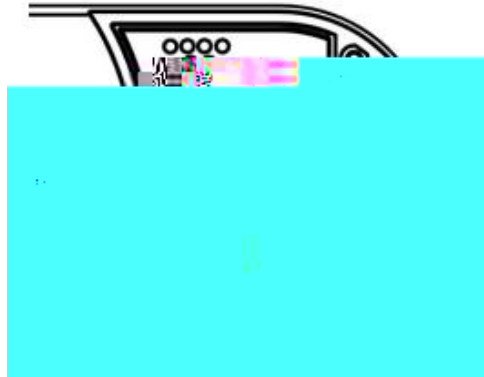


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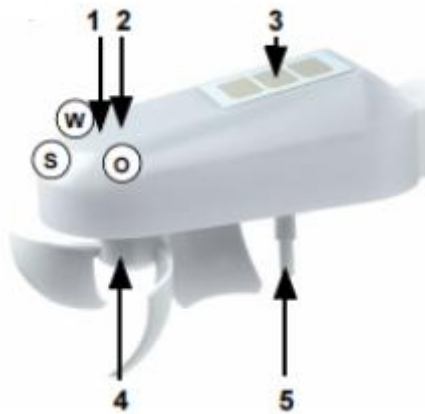
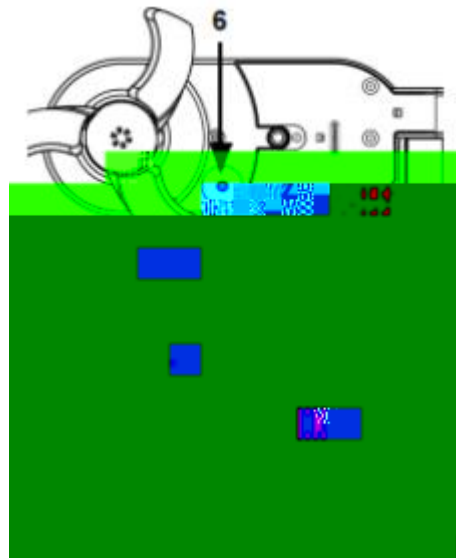
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**Fig. 1**



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Fig. 2

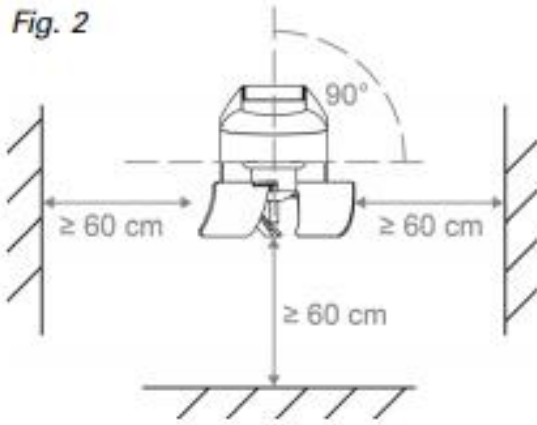


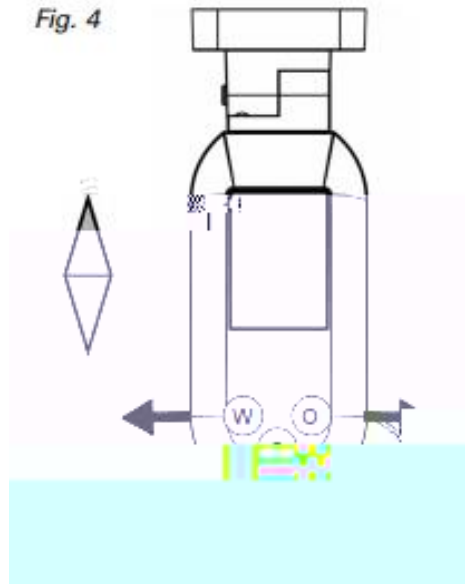
Fig. 3

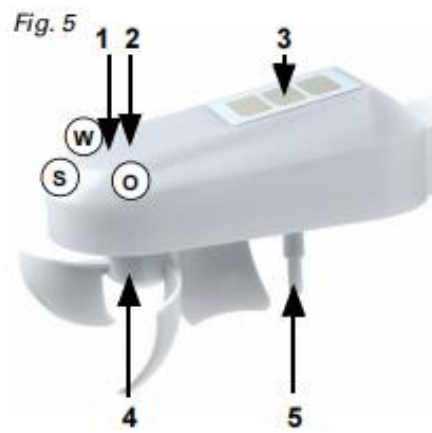


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Fig. 4





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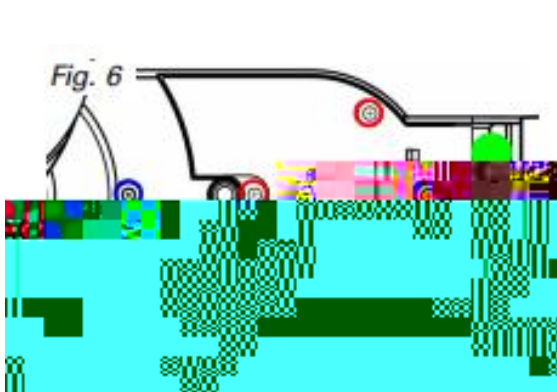
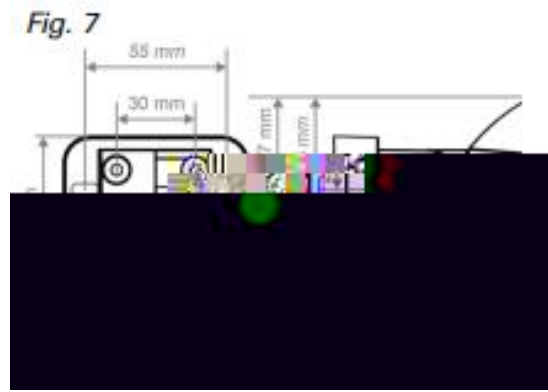
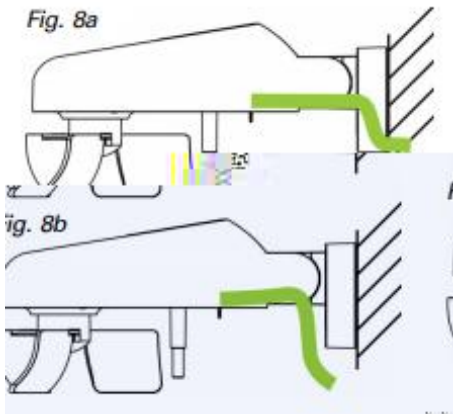
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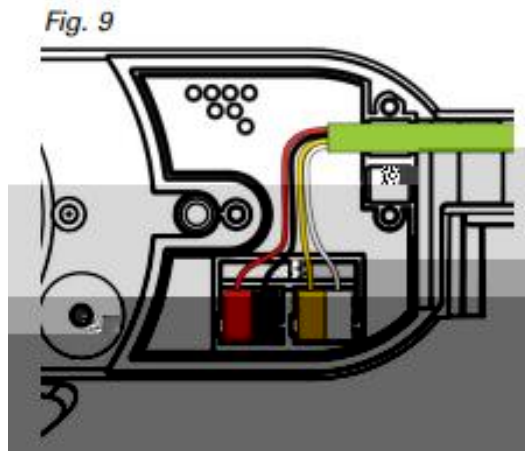
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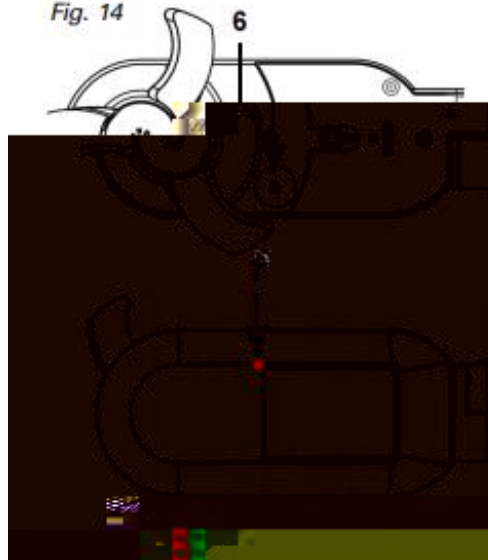


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Fig. 14



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Transmission delays after  
power-up and programming for:

Measured values

5 sec

Threshold values and switching outputs

5 sec

Logic outputs

5 sec

Maximum telegram quota

5 telegrams per second

send object auxiliary voltage status

not

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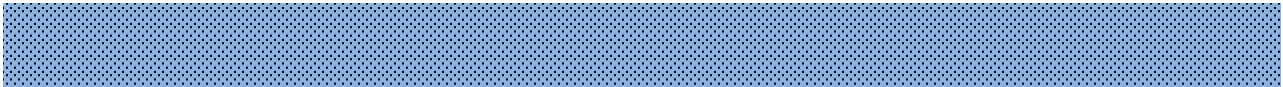
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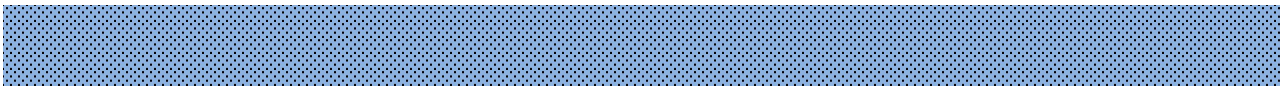
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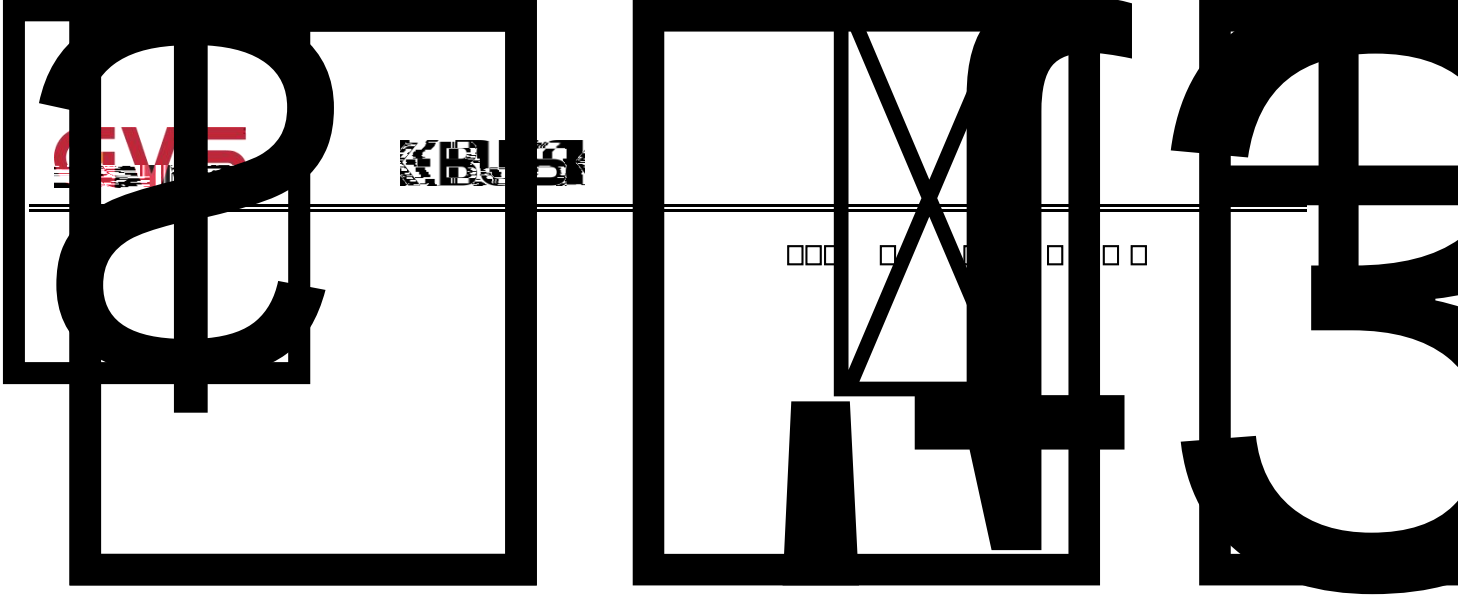
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|------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| GPS signal and transmitted on request and periodically                                   |                                                                  |
| Send cycle                                                                               | 1 min                                                            |
| If there is no reception, GPS malfunction will be recognised after last reception/ reset |                                                                  |
|                                                                                          | 30 min                                                           |
| After an emergency test, the unit can take up to 10 minutes till GPS OK.                 |                                                                  |
| Object                                                                                   | GPS malfunction transmits (1 = Malfunction   0 = no Malfunction) |
|                                                                                          | on change and periodically                                       |
| Send cycle                                                                               | 30 sec                                                           |



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#### ATTENTION:

For the UTC offset and

the summer/winter time change-over

the location must be set

Country

Germany

Location

Aachen

Time zone definition

☒ standard ☐ specific

Summer/winter time change-over on the ST: Sun. after 25 March WT: Sun. after 22

Rule for summer/winter time switch

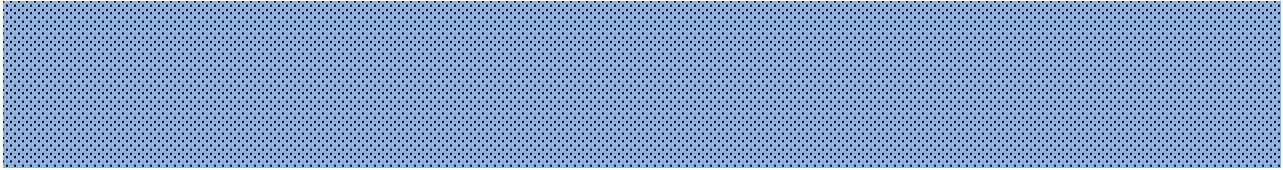
year 2011

UTC+1



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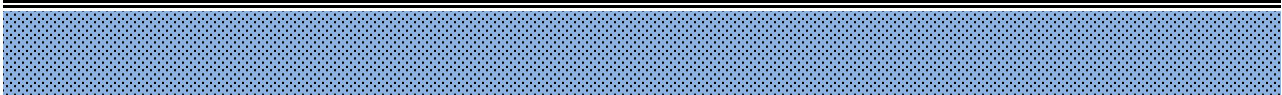
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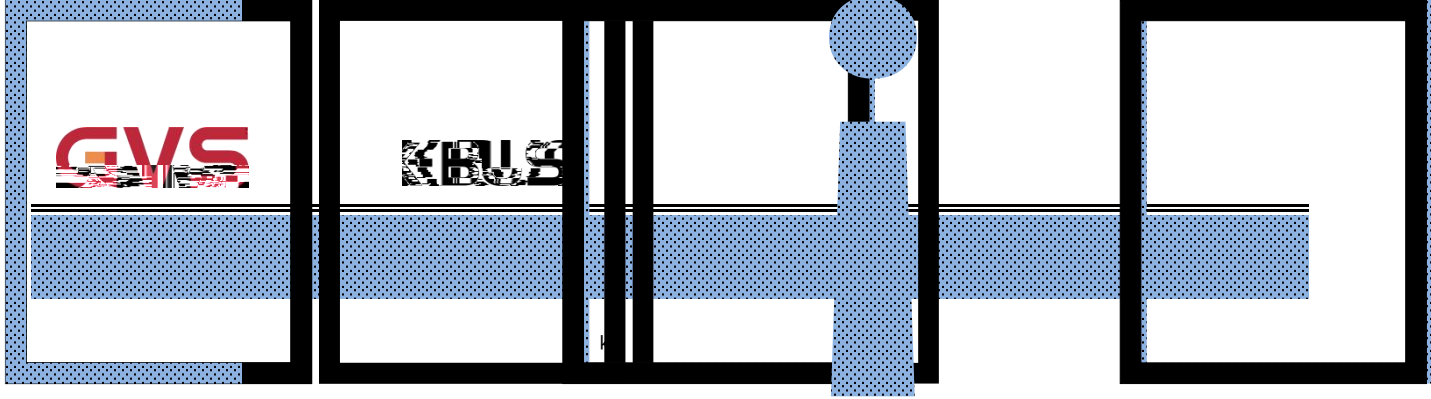
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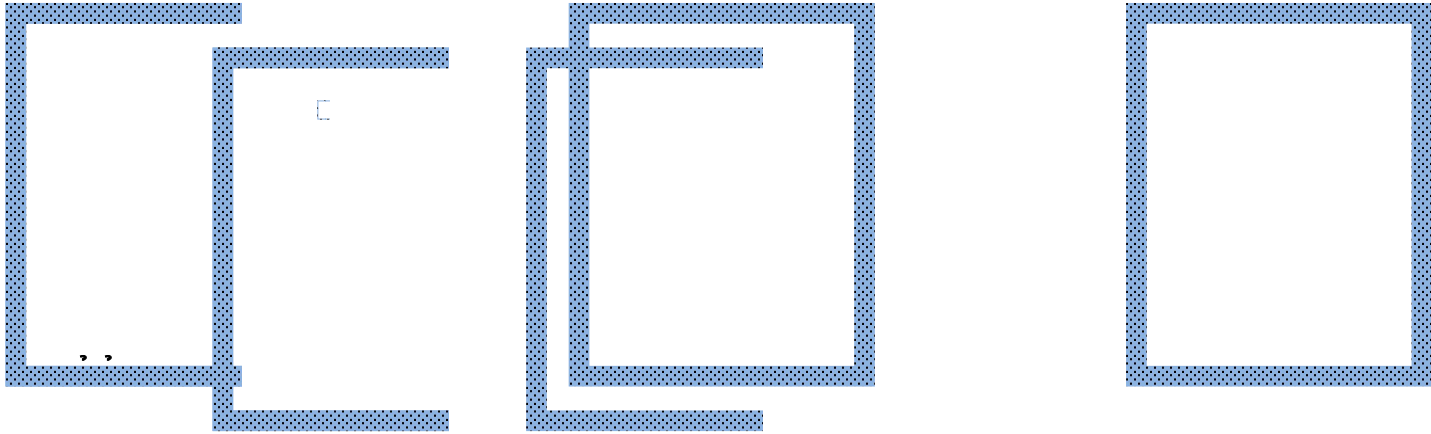
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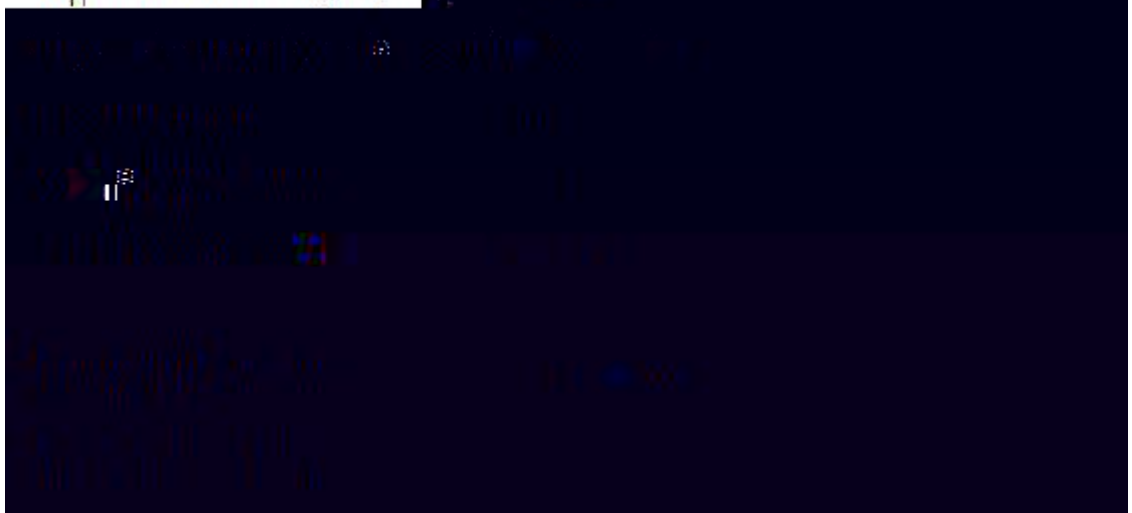
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Use rain sensor

☐ No ☒ Yes

When it rains the switching output is

☐ 0 ☒ 1

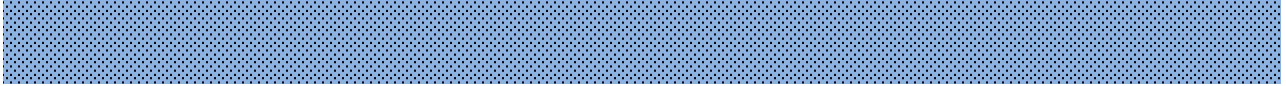


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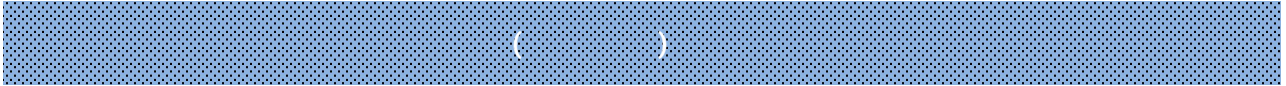


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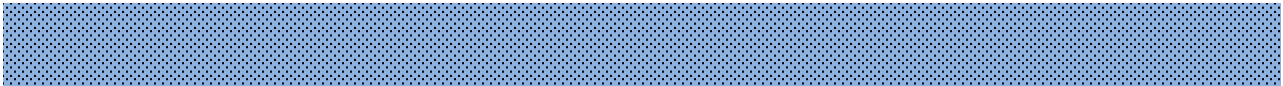
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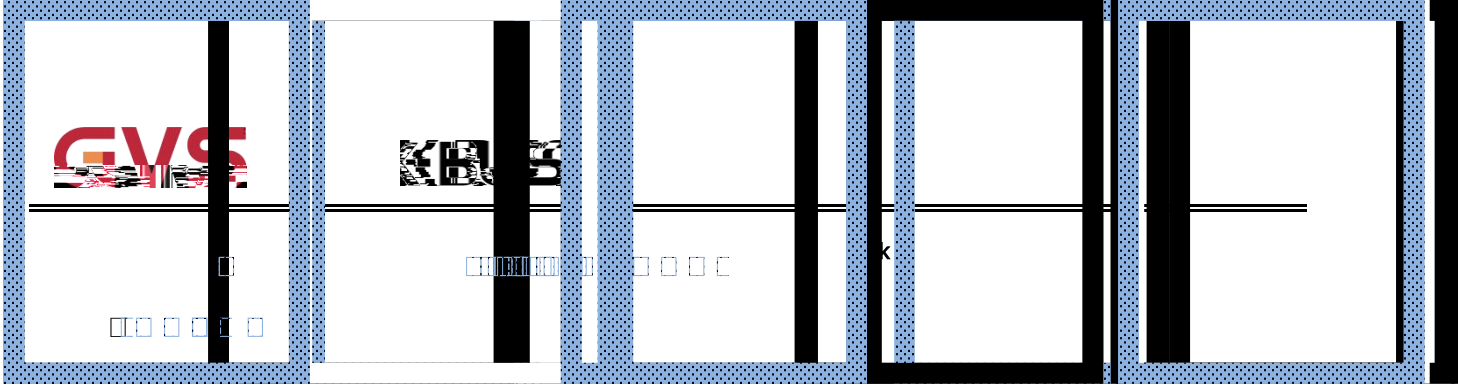
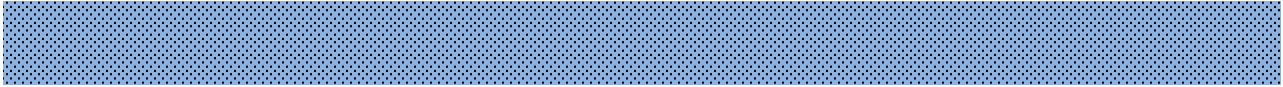


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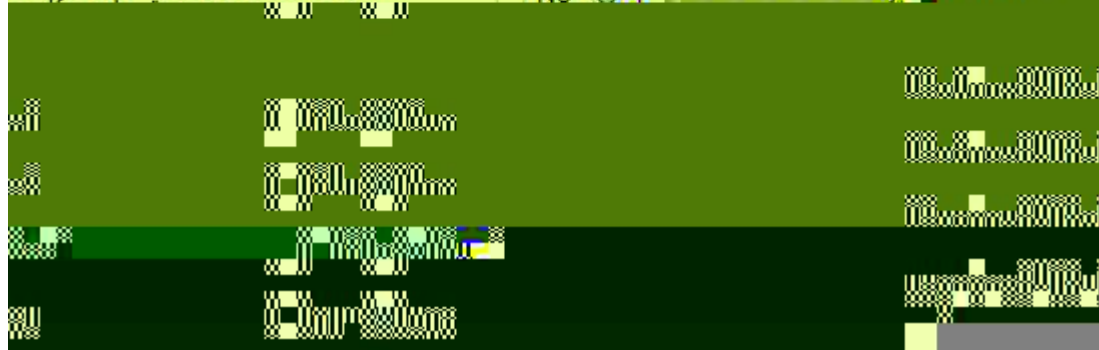
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|--------------------------------|---------------------------------------------------------------|
| Offset in 0.1°C                | <input type="text" value="1"/>                                |
| Measured value                 | send in case of change and cyclically                         |
| on change of                   | 10%                                                           |
| Send cycle                     | 5 sec                                                         |
| Use minimum and maximum values | <input checked="" type="radio"/> No <input type="radio"/> Yes |

Values are not maintained after the

Use object "Temperature sensor" ☐ No ☒ Yes



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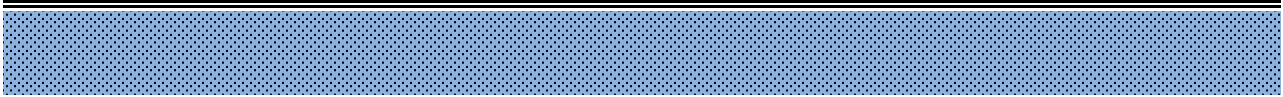
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Threshold value: \_\_\_\_\_

Threshold value setpoint: ☒ Parameter ☐ Communication objects

Threshold value in 0.1°C:

Switching distance (hysteresis) of the threshold value in %:

Switching output: \_\_\_\_\_

Output is at (TV = threshold value) (SD = switching distance)  $TV > TV_{above} + SD$  |  $TV < TV_{below} - SD$

Delays can be set via objects (in seconds) ☒ No ☐ Yes

Switching delay from 0 to 1:

Switching delay from 1 to 0:

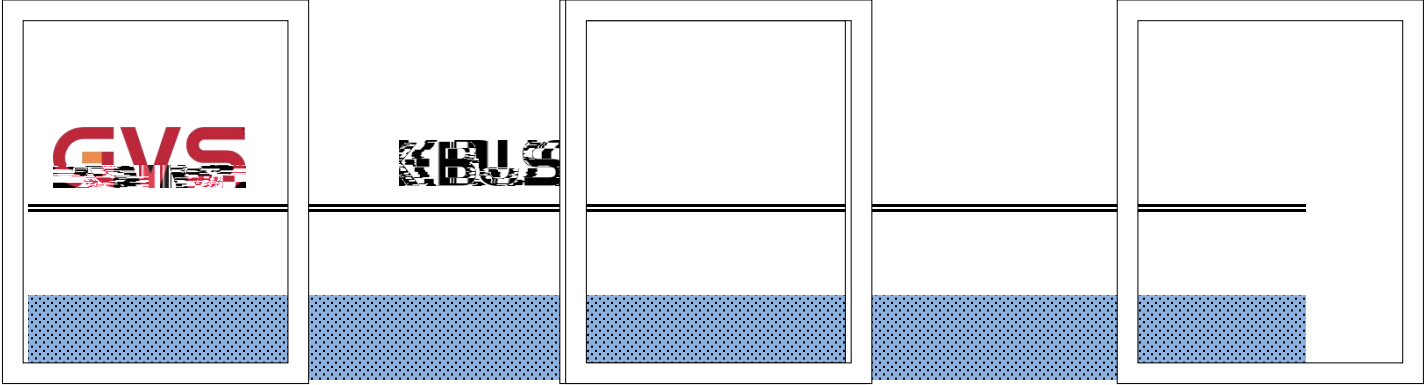
Switching output sends:

Send cycle:

Blocking: \_\_\_\_\_

Use block of the switching output ☐ No ☒ Yes

if value 1: block | if value 0: block ☒ if value 1: block | if value 0: block



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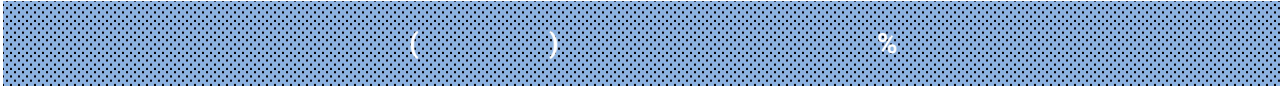
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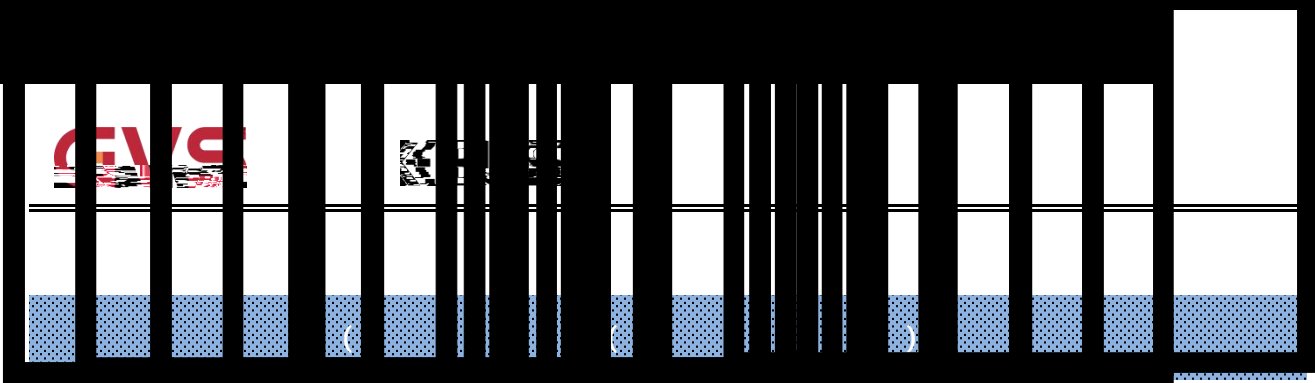
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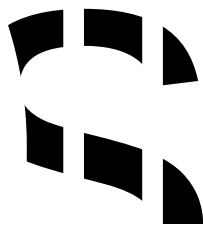


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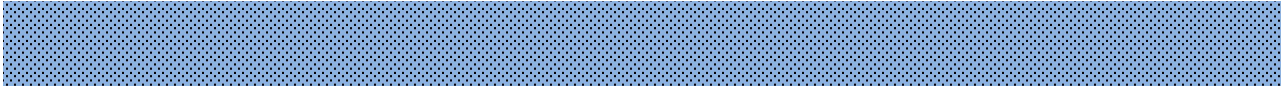


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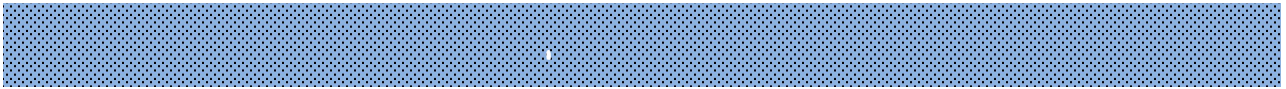


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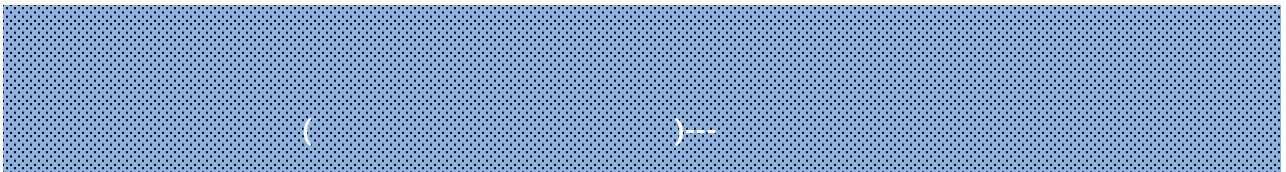
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| Measurement value                    | send in case of change and cyclically                         |
| on change of                         | 10%                                                           |
| Sampling cycle                       | 5 sec                                                         |
| Use maximum value                    | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| Value is kept maintained after reset | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Use threshold value 1                | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| Use threshold                        | 100000                                                        |



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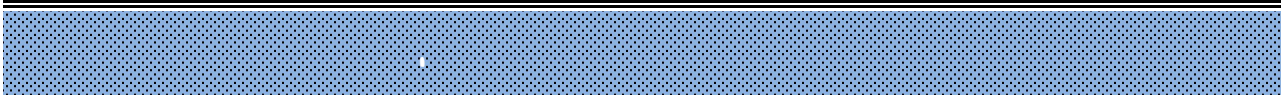
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|----------------|---------------------------------------|
| Measured value | send in case of change and cyclically |
| on change of   | 10%                                   |
| Send cycle     | 5 sec                                 |

Use threshold value 1 ☐ No ☒ Yes

Use threshold value 2 ☐ No ☒ Yes

Use threshold value 3 ☐ No ☒ Yes

Use threshold value 4 ☐ No ☒ Yes

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Threshold value:

Threshold value setting

Unit per ☐ Parameter ☐ Communication objects

|                                                             |    |
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| Threshold value in klux                                     | 60 |
| Switching distance (hysteresis) of the threshold value in % | 20 |

Switching distance (hysteresis) of the threshold value in %

Output is at (TV = threshold value) (SD = switching distance)

Switching distance (hysteresis) of the threshold value in %

Output is at (TV = threshold value) (SD = switching distance)

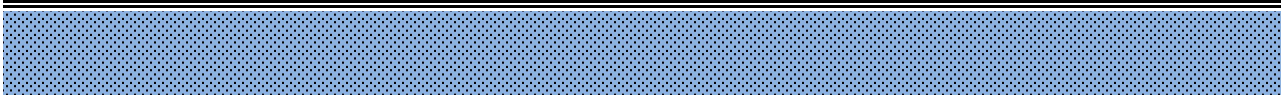
☒ No ☐ Yes

Behaviour of the switching output

With blocking

on release: (with 2 seconds release delay)

Status object/s sent



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Use threshold value 1

☐ No ☒ Yes

Use threshold value 2

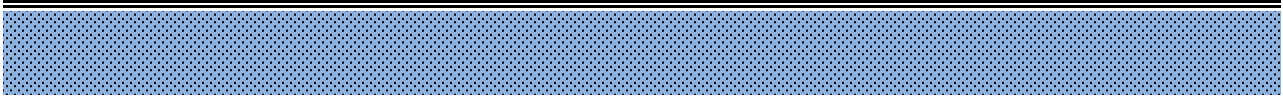
☐ No ☒ Yes

Use threshold value 3

☐ No ☐ Yes

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## Sun position

send in case of change and cyclically

on change

Send position

Send speed

Send distance

Send frame

Send frame

Send speed

Send speed

Send speed

Send speed

Send speed

Send

Send speed

Send speed

Send speed

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Use heat protection temperature

No ☐ Yes ☐

Heat protection temperature in °C

35

Switching distance (hysteresis) in °C

5

Heat protection

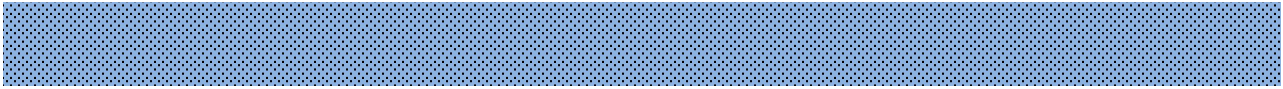
Heat protection temperature in °C (active speed = HTU) (inactive speed = HTU - ΔD) (ΔD = Switching distance)

Heat protection

Heat protection

Heat protection





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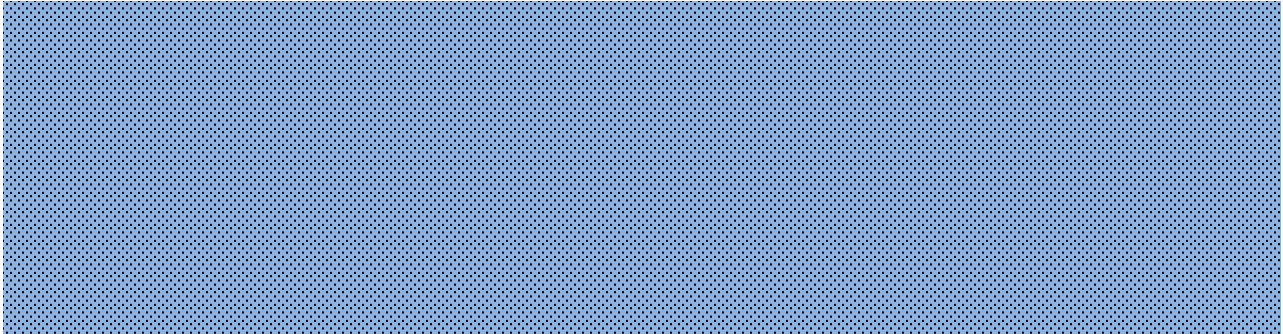
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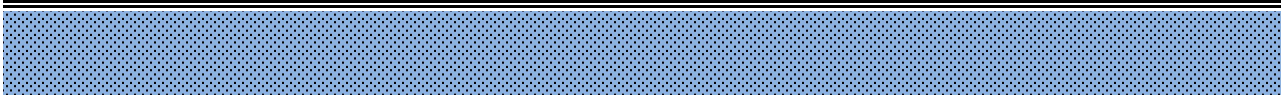
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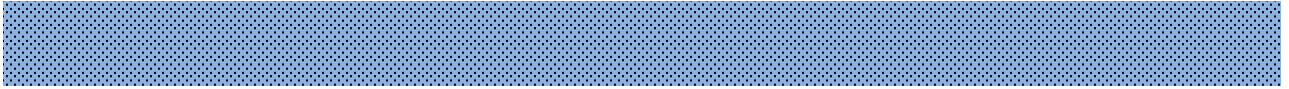
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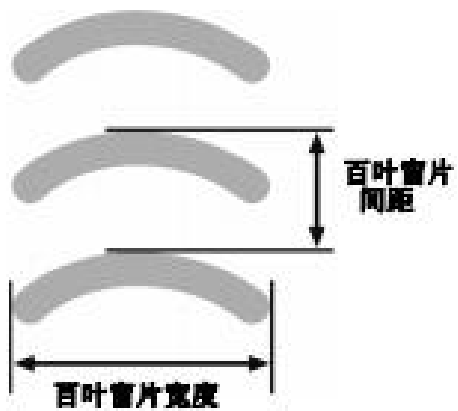
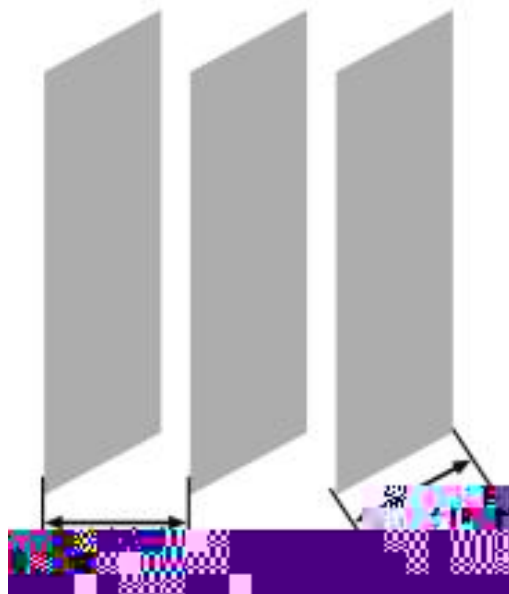
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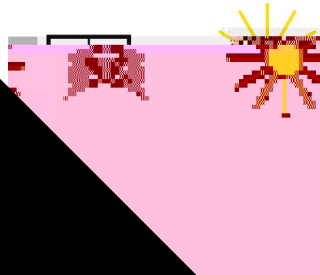




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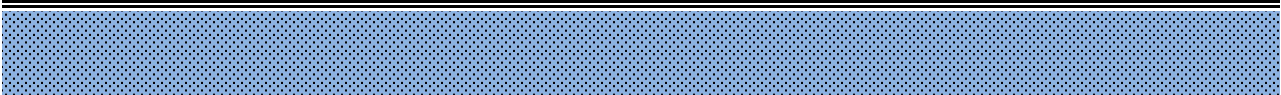


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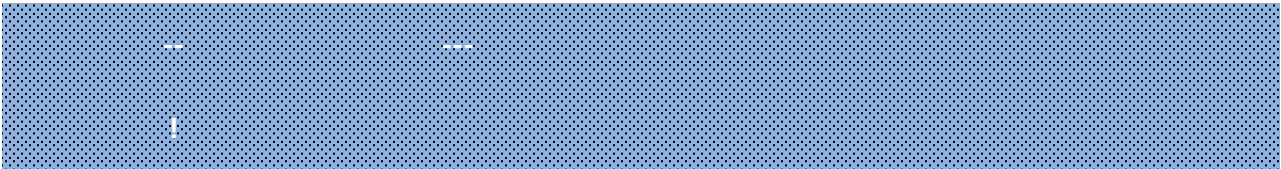
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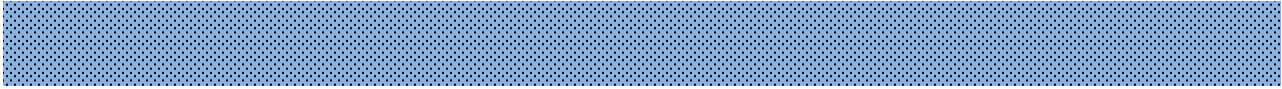
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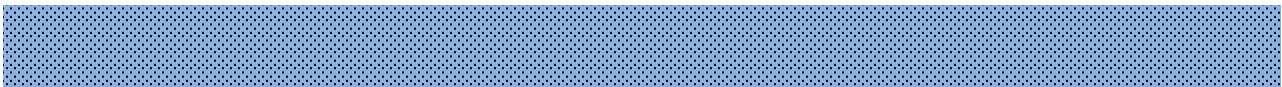
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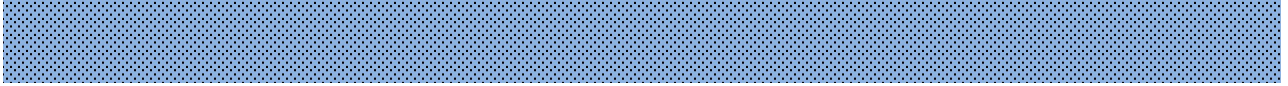
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Use period 1

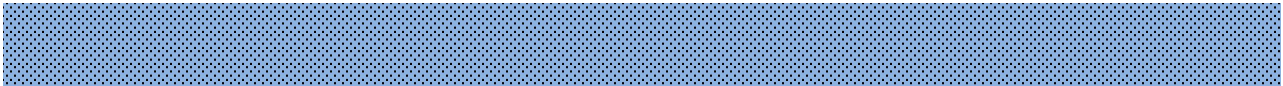
☐ No ☒ Yes

Use period 2

☐ No ☒ Yes

Use period 3

☐ No ☒ Yes



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From:

Month January

Day

1

Up to and including:

Month

January

Day

1

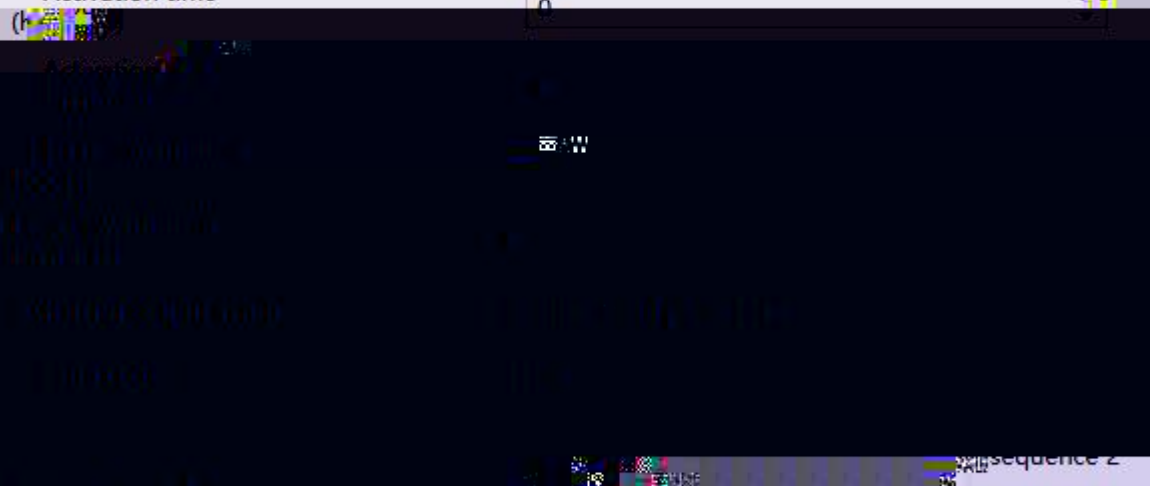
Use sequence 1

☐ No

☒ Yes

Activation time

0



sequence 2

☒ Yes

Activation time  
(hours)

0

Activation time  
(minutes)

0

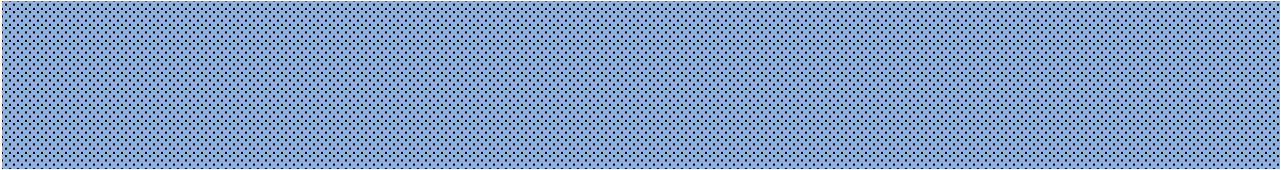
Deactivation time  
(hours)

0

Deactivation  
(minutes)

Switching output sends

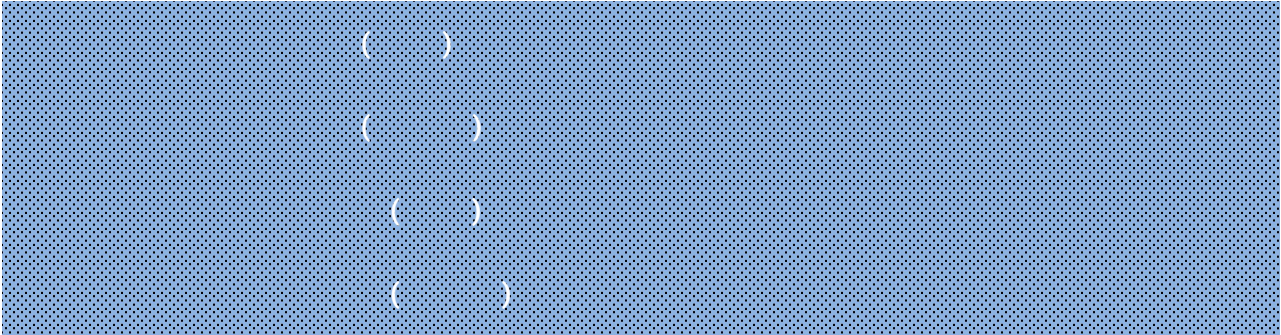
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Activations:

Monday

☐ No ☒ Yes

Tuesday

☐ No ☒ Yes

Wednesday

☐ No ☒ Yes

Thursday

☐ No ☒ Yes

Friday

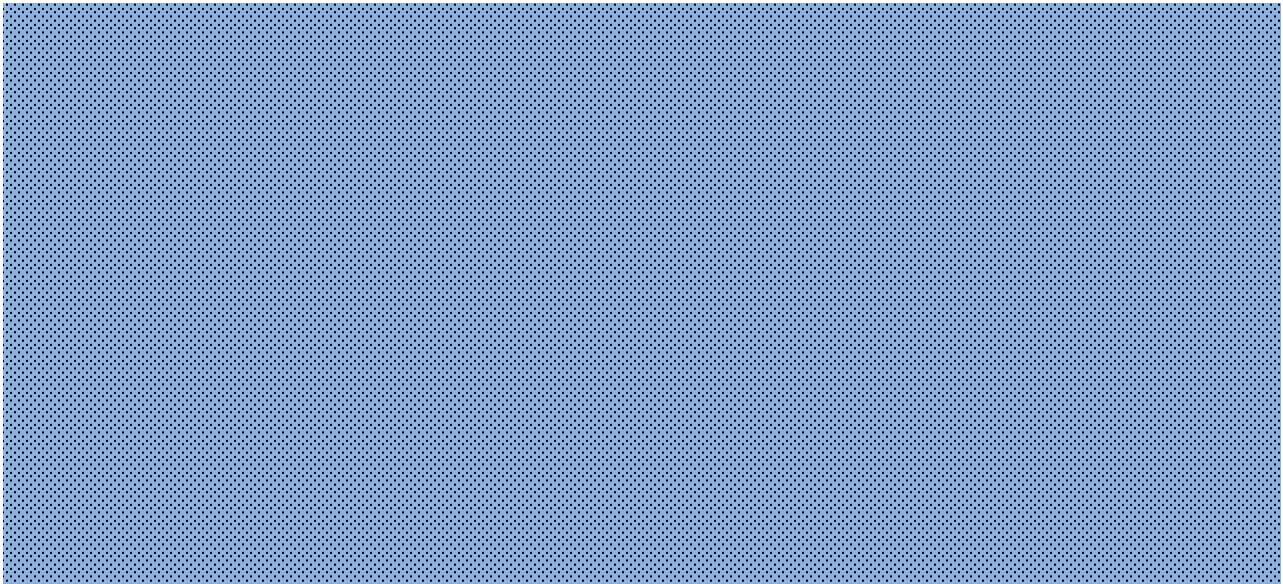
☐ No ☒ Yes

Saturday

☐ No ☒ Yes

Sunday

☐ No ☒ Yes



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Sequence 1:

Activation time  
(hours)

0

Activation time  
(minutes)

0

Deactivation time  
(hours)

0

Deactivation time  
(minutes)

0

It should be assigned to OR

☒ No

☐ Yes

Output sends

on change and periodically

1 min

Send cycle

Sequence 2:

Activation time  
(hours)

0

Activation time  
(minutes)

0

Deactivation time  
(hours)

0

Deactivation time  
(minutes)

0

Send cycle

It should be assigned to OR

☒ No

☐ Yes

Output sends

on change and periodically

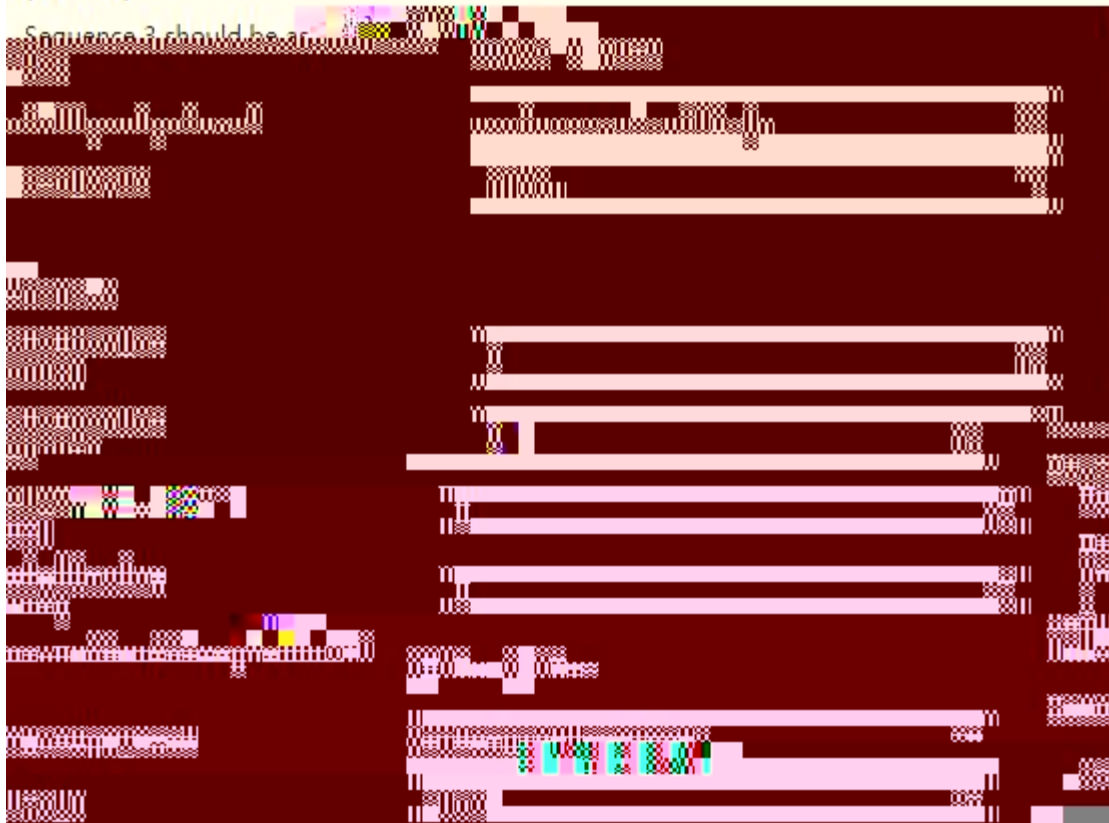
1 min

Switching

Send cycle

Sequence 3:

|                                |   |
|--------------------------------|---|
| Activation time<br>(hours)     | 0 |
| Activation time<br>(minutes)   | 0 |
| Deactivation time<br>(hours)   | 0 |
| Deactivation time<br>(minutes) | 0 |



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Use logic inputs

☐ No
 ☒ Yes

Object value before 1. communication  
for:

- Logic input 1
 

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- Logic input 2
 

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Logic input 3
 

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AND logic:

AND logic 1

☐ not active ☒ active

AND logic 2

☒ not active ☐ active

AND logic 3

☒ not active ☐ active

AND logic 4

☒ not active ☐ active

AND logic 5

☒ not active ☐ active

AND logic 6

☒ not active ☐ active

logic

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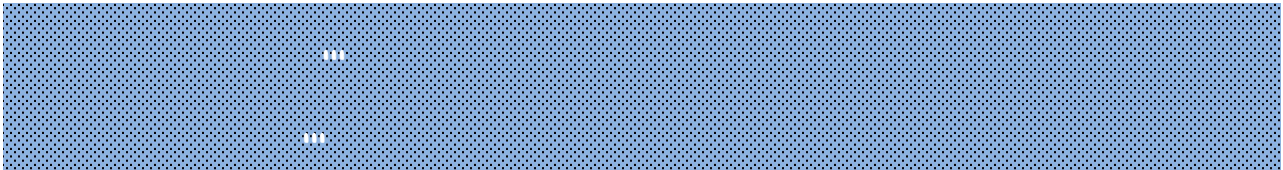
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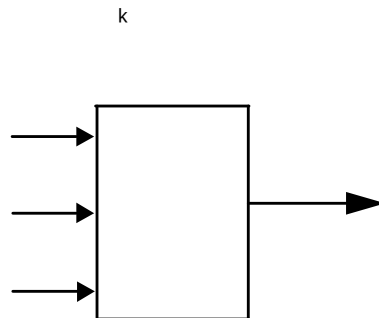


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1st input

do not use

2nd input

do not use

3rd input

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4th input

do not use

Logic output sends

☐ one 1 bit object
 ☒ two 8 bit objects

Logic output sends

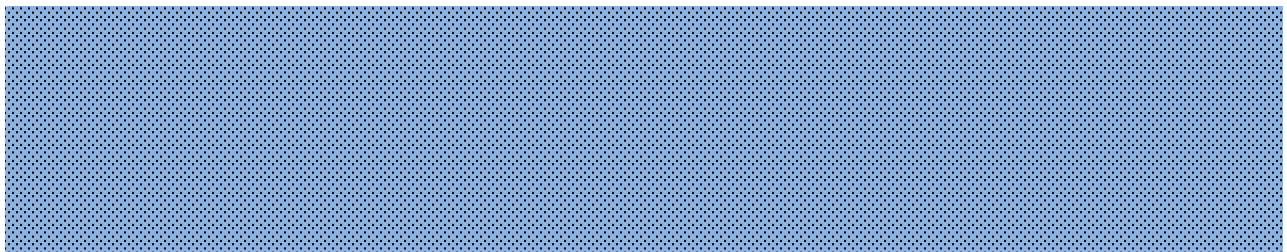
Value =

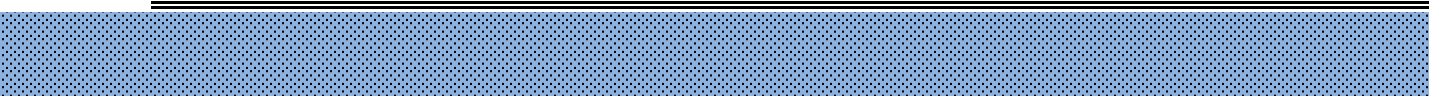
(0 ... 255)

if logic = 1 ==> object A value

0

if logic = 0 ==> object B value







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!

0 Output auxiliary voltage Auxiliary voltage status (1=ON) 0.5 11bit C R - T - switch Low

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|------------------|------------------------|---------|---|---|---|---|---|-------------|-----|
| Input/Output GPS | GPS date               | 3 bytes | C | R | W | T | U | date        | Low |
| Input GPS        | Date and time reported | 3 bytes | C | R | W | T | U | time of day | Low |
| Output GPS       | GPS malfunction        | 1 byte  | C | R | W | T | U | malfunction | Low |

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|------|-----------------------|--------------------|---------|---|---|---|---|---|----------------|-----|---|------------|
| 5    | Output location       | Location longitude | 4 bytes | C | R | - | T | - | angle (degree) | Low | 6 | Output loc |
| tion | Location latitude [°] |                    | 4 bytes | C | R | - | T | - | angle (degree) | Low |   |            |

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|-----|---------------------|---------------------------------------|---------|---|---|---|---|---|-----------------------|-----|
| 110 | Output sun position | Sun position direction of the sun [°] | 4 bytes | C | R | - | T | - | angle (degree)        | Low |
| 111 | Output sun position | Sun position height of the sun [°]    | 4 bytes | C | R | - | T | - | angle (degree)        | Low |
| 112 | Output sun position | Sun position direction of the sun [°] | 2 bytes | C | R | - | T | - | humidity (%)          | Low |
| 113 | Output sun position | Sun position height of the sun [°]    | 2 bytes | C | R | - | T | - | humidity (%)          | Low |
| 114 | Output Façades      | Façades Thermal insulation status     | 1 bit   | C | R | - | T | - | switch                | Low |
| 115 | Output Façade 1     | Façade 1 Status                       | 1 bit   | C | R | - | T | - | switch                | Low |
| 116 | Output Façade 1     | Façade 1 Movement position [%]        | 1 byte  | C | R | - | T | - | percentage (0..100..) | Low |
| 117 | Output Façade 1     | Façade 1 Slat position [%]            | 1 byte  | C | R | - | T | - | percentage (0..100..) | Low |
| 118 | Input Façade 1      | Façade 1 (1 = blocked)                | 1 bit   | C | - | W | - | - | switch                | Low |
| 119 | Input Façade 1      | Façade 1 Safety (1 = active)          | 1 bit   | C | - | W | - | - | switch                | Low |

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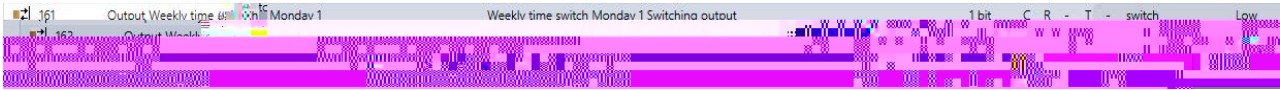
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| 189 | Input logic input 1  | Logic input 1  | 1 bit | C | - | W | - | - | switch | Low |
| 190 | Input logic input 2  | Logic input 2  | 1 bit | C | - | W | - | - | switch | Low |
| 191 | Input logic input 3  | Logic input 3  | 1 bit | C | - | W | - | - | switch | Low |
| 192 | Input logic input 4  | Logic input 4  | 1 bit | C | - | W | - | - | switch | Low |
| 193 | Input logic input 5  | Logic input 5  | 1 bit | C | - | W | - | - | switch | Low |
| 194 | Input logic input 6  | Logic input 6  | 1 bit | C | - | W | - | - | switch | Low |
| 195 | Input logic input 7  | Logic input 7  | 1 bit | C | - | W | - | - | switch | Low |
| 196 | Input logic input 8  | Logic input 8  | 1 bit | C | - | W | - | - | switch | Low |
| 197 | Input logic input 9  | Logic input 9  | 1 bit | C | - | W | - | - | switch | Low |
| 198 | Input logic input 10 | Logic input 10 | 1 bit | C | - | W | - | - | switch | Low |
| 199 | Input logic input 11 | Logic input 11 | 1 bit | C | - | W | - | - | switch | Low |
| 200 | Input logic input 12 | Logic input 12 | 1 bit | C | - | W | - | - | switch | Low |
| 201 | Input logic input 13 | Logic input 13 | 1 bit | C | - | W | - | - | switch | Low |

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