

General description:



The device fits for the particular use of the following tasks:

Universal interface with binary inputs for processing incoming commands and output commands via the binary outputs. Also monitoring of the temperature in building systems technology, data transfer and regulation via KNX bus system. The device is intended for use in accordance with the defined technical data and is not intended for use in outdoor areas or wet rooms.

The universal interface EA 36.32 knx can provide the following data and control for the KNX bus:

Temperature:	Value output Control heating / cooling (2-point and PI control)
Inputs:	Value input Control options (switching, dimming, etc.)
Outputs:	LED output / Constant current output Open Collector output

Please consider that handling and installation of the device is explained in the instruction manual enclosed to the product!

Please take into account the resolution of the 2 Bytes data type (see KNX Specification)!

Application program

Manufacturer:

Hugo Müller GmbH & Co KG
 Sturmbühlstraße 145-149
 D-78054 VS-Schwenningen, Germany

Application program name:

[EA 36.32 knx] Universal interface with binary inputs & outputs and room temperature control

Installation:

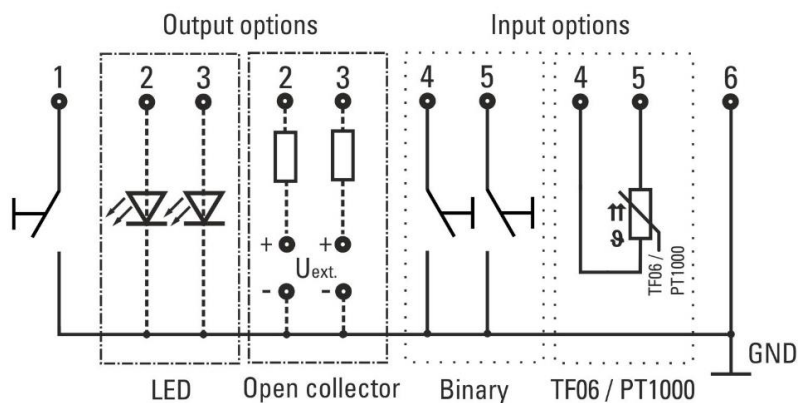
Add the device to your device list and open a new project. You can download the ETS database on our webpage:

<http://www.hugo-mueller.de/en/downloads/knx-product-database/>

Technical Specifications

Power supply	Via KNX-Bus voltage
Bus current	< 10 mA
Bus system	KNX-TP/S
Inputs	3x configurable binary inputs Input 2+3 can also be used for external temperature probes (PT1000/TF06. This function requires the use of both Inputs.
Outputs	2x configurable outputs: - LED-driver (< 3 mA) - „Open-collector“-output with: - ext. supply voltage (U _{max}) = 50 V DC - max. switching current (I _{max}) = 80 mA - max. switching power (P _{max}) = 200 mW - Voltage level on low signal = 0,5 V DC
Permitted ambient temperature	0° ... +50°C
Housing	Self-extinguishing thermoplastic
Mounting	Flush-mount (hollow-wall box)
Type of connection	KNX Bus terminal + removable terminal block
Type of protection	IP 20 acc. to DIN EN 60529
Class of protection	III when installed according to regulations

Wiring Diagram



Parameter overview

Parameters	Subcategory parameters	Description
General commands	General commands	Send „in operation “(incl. cycle time), Request status (active/inactive, request with...), Send delay after bus voltage recovers in seconds
Temperature control	General settings	Settings for Type (inactive, heating, cooling, heating & cooling), Different control values (extra cooling level & guide & demand for display)
	Blocking objects	Enable – disable for cooling and/or heating
	Temperature measurement	Selection of temperature value measurement 1 + 2 (via bus or external probe) Proportional value for measurement 2
	Setpoint	Settings for comfort, standby and eco temperature
	Main level heating	Temperature heating: Type (PI, 2-point), Control direction of control value Proportional band Reset time Control format, control value, case of sensor error Send on change / send cyclically Blocking object
	Main level cooling	Temperature cooling: Type (PI, 2-point), Control direction of control value Proportional band Reset time Control format, control value, case of sensor error Send on change / send cyclically Blocking object
Inputs	General	Limitation of number and interval of telegrams to be send
	I1 General	Labeling of inputs, Selection of function as inactive or binary input (functions depending on input) Binary input: switching/alarm, dimming, blinds/shutters, value, scene, switching sequences, multiple operation, pulse counter
	I2 General	Labeling of inputs, Selection of function as inactive, binary or temperature input (functions depending on input) Binary input: switching/alarm, dimming, blinds/shutters, value, scene, switching sequences, multiple operation, pulse counter Temperature sensor input (E2+E3): sensor type, offset, error compensation, output settings, threshold 1, threshold 2

	I3 General	<p>Labeling of inputs, Selection of function as inactive or binary input (functions depending on input) Binary input: switching/alarm, dimming, blinds/shutters, value, scene, switching sequences, multiple operation, pulse counter</p>
Outputs	Output 1 General	<p>Labeling of inputs, Selection of function as disabled, LED/constant current, open collector or frequency output (functions depending on output) Output settings (depend on the function): frequency, conditions, time limiter, send status, output condition after bus voltage recovery</p>
	Output 2 General	<p>Labeling of inputs, Selection of function as disabled, LED/constant current, open collector or frequency output (functions depending on output) Output settings (depend on the function): frequency, conditions, time limiter, send status, output condition after bus voltage recovery</p>

Communication objects

Object number	Object name	Object function	Object size	Flag* C - R - W - T - U	Data Type
1	Send '1' in operation	Output	1 Bit	--CT--	[1.2] DPT_Bool
1	Send '0' in operation	Output	1 Bit	--CT--	[1.2] DPT_Bool
2	Request status	Input	1 Bit	-WC---	[1.1] DPT_Switch
16	RTC: external temperature value 1	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
17	RTC: external temperature value 2	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
18	RTC: comfort temperature	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
19	RTC: standby setback when heating	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
20	RTC: eco setback when heating	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
21	RTC: standby increment when cooling	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
22	RTC: eco increment when cooling	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
23	RTC: current set point temperature	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
24	RTC: comfort temperature +/- 0,1K	Input	1 Bit	-WC---	[1.8] DPT_UpDown
25	RTC: standby setback when heating +/- 0,1K	Input	1 Bit	-WC---	[1.8] DPT_UpDown
26	RTC: eco setback when heating +/- 0,1K	Input	1 Bit	-WC---	[1.8] DPT_UpDown
27	RTC: standby increment when cooling +/- 0,1K	Input	1 Bit	-WC---	[1.8] DPT_UpDown
28	RTC: eco increment when cooling +/- 0,1K	Input	1 Bit	-WC---	[1.8] DPT_UpDown
29	RTC: HVAC Modus: 1=comf, 2=stdb, 3=eco	Output / Input	1 Byte	-WCT--	[20.102] DPT_HVACMode
30	RTC: comfort mode enable	Input	1 Bit	-WC---	[1.17] DPT_Trigger
31	RTC: standby mode enable	Input	1 Bit	-WC---	[1.17] DPT_Trigger
32	RTC: eco mode enable	Input	1 Bit	-WC---	[1.17] DPT_Trigger
33	RTC: status heating	Output	1 Bit	--CT--	[1.1] DPT_Switch
34	RTC: status cooling	Output	1 Bit	--CT--	[1.1] DPT_Switch
35	RTC: control value main level heating	Output	1 Bit	--CT--	[1.1] DPT_Switch
35	RTC: control value main level heating	Output	1 Bit	--CT--	[1.1] DPT_Switch
35	RTC: control value main level heating	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
35	RTC: control value main level heating	Output	1 Byte	--CT--	[5.1] DPT_Scaling
36	RTC: control value extra level heating	Output	1 Bit	--CT--	[1.1] DPT_Switch
36	RTC: control value extra level heating	Output	1 Bit	--CT--	[1.1] DPT_Switch
36	RTC: control value extra level heating	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
36	RTC: control value extra level heating	Output	1 Byte	--CT--	[5.1] DPT_Scaling
37	RTC: control value main level cooling	Output	1 Bit	--CT--	[1.1] DPT_Switch
37	RTC: control value main level cooling	Output	1 Bit	--CT--	[1.1] DPT_Switch
37	RTC: control value main level cooling	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
37	RTC: control value main level cooling	Output	1 Byte	--CT--	[5.1] DPT_Scaling
38	RTC: control value extra level cooling	Output	1 Bit	--CT--	[1.1] DPT_Switch
38	RTC: control value extra level cooling	Output	1 Bit	--CT--	[1.1] DPT_Switch
38	RTC: control value extra level cooling	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
38	RTC: control value extra level cooling	Output	1 Byte	--CT--	[5.1] DPT_Scaling
39	RTC: guide value [°C]	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp

40	RTC: blocking object heating	Input	1 Bit	-WC---	[1.3] DPT_Enable
41	RTC: blocking object cooling	Input	1 Bit	-WC---	[1.3] DPT_Enable
42	RTC: blocking object extra level heating	Input	1 Bit	-WC---	[1.3] DPT_Enable
43	RTC: blocking object extra level cooling	Input	1 Bit	-WC---	[1.3] DPT_Enable
64	Activate output 1	Input	1 Bit	-WC---	[1.1] DPT_Switch
65	Output 1 status	Output	1 Bit	--CT--	[1.1] DPT_Switch
66	Activate output 2	Input	1 Bit	-WC---	[1.1] DPT_Switch
67	Output 2 status	Output	1 Bit	--CT--	[1.1] DPT_Switch
81	Input 1 2-byte floating point (event 0)	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
81	Input 1 4-byte value (0 to 4294967295) (event 0)	Output	4 Bytes	--CT--	[12.1] DPT_Value_4_Ucount
81	Input 1 Switching step 1	Output	1 Bit	-WCT--	[1.1] DPT_Switch
81	Input 1 Scene	Output	1 Byte	-WCTU-	[18.1] DPT_SceneControl
81	Input 1 2-byte value (-32,768 to 32,767) (event 0)	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
81	Input 1 Scene (event 0)	Output	1 Byte	--CT--	[18.1] DPT_SceneControl
81	Input 1 4-byte value (-2,147,483,648 to 2,147,483,647) (event 0)	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
81	Input 1 2-byte value (0 to 65,535) (event 0)	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
81	Input 1 HZ: Counter reading 4-byte value	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
81	Input 1 HZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
81	Input 1 Alarm sensor	Output	1 Bit	-WCT--	[1.5] DPT_Alarm
81	Input 1 Switching sensor	Output	1 Bit	-WCT--	[1.1] DPT_Switch
81	Input 1 HZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
81	Input 1 Switching 1 actuation	Output	1 Bit	-WCT--	[1.1] DPT_Switch
81	Input 1 HZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
81	Input 1 HZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
81	Input 1 Switch (event 0)	Output	1 Bit	--CT--	[1.1] DPT_Switch
81	Input 1 1-byte value (-128 to 127) (event 0)	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
81	Input 1 Priority (event 0)	Output	2 Bit	--CT--	[2.1] DPT_Switch_Control
81	Input 1 Blind UP/DOWN	Output	1 Bit	-WCT--	[1.8] DPT_UpDown
81	Input 1 1-byte value (0 to 255) (event 0)	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
81	Input 1 Switching	Output	1 Bit	-WCT--	[1.1] DPT_Switch
82	Input 1 ZZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
82	Input 1 STOP/slat adjustment	Output	1 Bit	--CT--	[1.7] DPT_Step
82	Input 1 Switching step 2	Output	1 Bit	-WCT--	[1.1] DPT_Switch
82	Input 1 Switching 2 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
82	Input 1 ZZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
82	Input 1 ZZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
82	Input 1 ZZ: Counter reading 4-byte value	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
82	Input 1 Dimming	Output	4 Bit	--CT--	[3.7] DPT_Control_Dimming
82	Input 1 ZZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
82	Input 1 1-byte value (-128 to 127) (event 1)	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
82	Input 1 4-byte value (0 to 4294967295) (event 1)	Output	4 Bytes	--CT--	[12.1] DPT_Value_4_Ucount
82	Input 1 Scene (event 1)	Output	1 Byte	--CT--	[18.1] DPT_SceneControl
82	Input 1 2-byte value (0 to 65,535) (event 1)	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount

82	Input 1 2-byte floating point (event 1)	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
82	Input 1 Priority (event 1)	Output	2 Bit	--CT--	[2.1] DPT_Switch_Control
82	Input 1 4-byte value (-2,147,483,648 to 2,147,483,647) (event 1)	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
82	Input 1 1-byte value (0 to 255) (event 1)	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
82	Input 1 Switch (event 1)	Output	1 Bit	--CT--	[1.1] DPT_Switch
82	Input 1 2-byte value (-32,768 to 32,767) (event 1)	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
83	Input 1 Scene storage display	Output	1 Bit	--CT--	[1.3] DPT_Enable
83	Input 1 Top end position	Input	1 Bit	-WC---	[1.2] DPT_Bool
83	Input 1 Start event 0/1	Input	1 Bit	-WC---	[1.1] DPT_Switch
83	Input 1 HZ: Request counter reading	Input	1 Bit	-WC---	[1.1] DPT_Switch
83	Input 1 Switching 3 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
83	Input 1 Switching step 3	Output	1 Bit	-WCT--	[1.1] DPT_Switch
84	Input 1 HZ: Limit value exceeded	Output	1 Bit	--CT--	[1.2] DPT_Bool
84	Input 1 Switching step 4	Output	1 Bit	-WCT--	[1.1] DPT_Switch
84	Input 1 Switching 4 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
84	Input 1 Bottom end position	Input	1 Bit	-WC---	[1.2] DPT_Bool
85	Input 1 Enable save	Input	1 Bit	-WC---	[1.3] DPT_Enable
85	Input 1 Switching, long actuation	Output	1 Bit	-WCT--	[1.1] DPT_Switch
85	Input 1 Save scene	Input	1 Bit	-WC---	[1.3] DPT_Enable
85	Input 1 Switching step 5	Output	1 Bit	-WCT--	[1.1] DPT_Switch
86	Input 1 Switch step UP/DOWN	Input	1 Bit	-WC---	[1.1] DPT_Switch
86	Input 1 ZZ: Limit value exceeded	Output	1 Bit	--CT--	[1.2] DPT_Bool
87	Input 1 Actuating number	Input	1 Byte	-WCTU-	[5.10] DPT_Value_1_Ucount
87	Input 1 ZZ: Request counter reading	Input	1 Bit	-WC---	[1.1] DPT_Switch
88	Input 1 ZZ: Reverse direction	Input	1 Bit	-WC---	[1.2] DPT_Bool
89	Input 1 ZZ: Reset	Input	1 Bit	-WC---	[1.2] DPT_Bool
90	Input 1 ZZ: block/unblock counting	Input	1 Bit	-WC---	[1.2] DPT_Bool
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
99	Input 1 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
101	Input 2 4-byte value (0 to 4294967295) (event 0)	Output	4 Bytes	--CT--	[12.1] DPT_Value_4_Ucount
101	Input 2 2-byte floating point (event 0)	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
101	Input 2 Scene	Output	1 Byte	-WCTU-	[18.1] DPT_SceneControl
101	Input 2 2-byte value (-32,768 to 32,767) (event 0)	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
101	Input 2 Scene (event 0)	Output	1 Byte	--CT--	[18.1] DPT_SceneControl
101	Input 2 4-byte value (-2,147,483,648 to 2,147,483,647) (event 0)	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
101	Input 2 2-byte value (0 to 65,535) (event 0)	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount

101	Input 2 Switching step 1	Output	1 Bit	-WCT--	[1.1] DPT_Switch
101	Input 2 HZ: Counter reading 4-byte value	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
101	Input 2 HZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
101	Input 2 Output value	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
101	Input 2 Output value	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
101	Input 2 HZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
101	Input 2 Switching 1 actuation	Output	1 Bit	-WCT--	[1.1] DPT_Switch
101	Input 2 HZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
101	Input 2 HZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
101	Input 2 1-byte value (-128 to 127) (event 0)	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
101	Input 2 Blind UP/DOWN	Output	1 Bit	-WCT--	[1.8] DPT_UpDown
101	Input 2 Switching	Output	1 Bit	-WCT--	[1.1] DPT_Switch
101	Input 2 Switch (event 0)	Output	1 Bit	--CT--	[1.1] DPT_Switch
101	Input 2 Priority (event 0)	Output	2 Bit	--CT--	[2.1] DPT_Switch_Control
101	Input 2 1-byte value (0 to 255) (event 0)	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
101	Input 2 Alarm sensor	Output	1 Bit	-WCT--	[1.5] DPT_Alarm
101	Input 2 Switching sensor	Output	1 Bit	-WCT--	[1.1] DPT_Switch
102	Input 2 STOP/slat adjustment	Output	1 Bit	--CT--	[1.7] DPT_Step
102	Input 2 ZZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
102	Input 2 Switching 2 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
102	Input 2 Dimming	Output	4 Bit	--CT--	[3.7] DPT_Control_Dimming
102	Input 2 ZZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
102	Input 2 Request output value	Input	1 Bit	-WC---	[1.1] DPT_Switch
102	Input 2 Request output value	Input	1 Bit	-WC---	[1.1] DPT_Switch
102	Input 2 2-byte floating point (event 1)	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
102	Input 2 ZZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
102	Input 2 ZZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
102	Input 2 ZZ: Counter reading 4-byte value	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
102	Input 2 Switching step 2	Output	1 Bit	-WCT--	[1.1] DPT_Switch
102	Input 2 Scene (event 1)	Output	1 Byte	--CT--	[18.1] DPT_SceneControl
102	Input 2 2-byte value (0 to 65,535) (event 1)	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
102	Input 2 4-byte value (-2,147,483,648 to 2,147,483,647) (event 1)	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
102	Input 2 Switch (event 1)	Output	1 Bit	--CT--	[1.1] DPT_Switch
102	Input 2 Priority (event 1)	Output	2 Bit	--CT--	[2.1] DPT_Switch_Control
102	Input 2 1-byte value (0 to 255) (event 1)	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
102	Input 2 4-byte value (0 to 4294967295) (event 1)	Output	4 Bytes	--CT--	[12.1] DPT_Value_4_Ucount
102	Input 2 2-byte value (-32,768 to 32,767) (event 1)	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
102	Input 2 1-byte value (-128 to 127) (event 1)	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
103	Input 2 Switching step 3	Output	1 Bit	-WCT--	[1.1] DPT_Switch
103	Input 2 Scene storage display	Output	1 Bit	--CT--	[1.3] DPT_Enable
103	Input 2 Measured value outside of range	Output	1 Bit	--CT--	[1.1] DPT_Switch
103	Input 2 HZ: Request counter reading	Input	1 Bit	-WC---	[1.1] DPT_Switch
103	Input 2 Measured value outside of range	Output	1 Bit	--CT--	[1.1] DPT_Switch

103	Input 2 Start event 0/1	Input	1 Bit	-WC---	[1.1] DPT_Switch
103	Input 2 Top end position	Input	1 Bit	-WC---	[1.2] DPT_Bool
103	Input 2 Switching 3 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
104	Input 2 Switching 4 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
104	Input 2 HZ: Limit value exceeded	Output	1 Bit	--CT--	[1.2] DPT_Bool
104	Input 2 Bottom end position	Input	1 Bit	-WC---	[1.2] DPT_Bool
104	Input 2 Heating temperature limit	Output	1 Bit	--CT--	[1.1] DPT_Switch
104	Input 2 Switching step 4	Output	1 Bit	-WCT--	[1.1] DPT_Switch
105	Input 2 Enable save	Input	1 Bit	-WC---	[1.3] DPT_Enable
105	Input 2 Temperature threshold value 1	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
105	Input 2 2-byte threshold value 1	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
105	Input 2 Byte threshold value 1	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
105	Input 2 Bit threshold value 1	Output	1 Bit	--CT--	[1.1] DPT_Switch
105	Input 2 Switching, long actuation	Output	1 Bit	-WCT--	[1.1] DPT_Switch
105	Input 2 Save scene	Input	1 Bit	-WC---	[1.3] DPT_Enable
105	Input 2 Switching step 5	Output	1 Bit	-WCT--	[1.1] DPT_Switch
106	Input 2 Switch step UP/DOWN	Input	1 Bit	-WC---	[1.1] DPT_Switch
106	Input 2 Send if threshold value 1 undershot	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
106	Input 2 ZZ: Limit value exceeded	Output	1 Bit	--CT--	[1.2] DPT_Bool
106	Input 2 Send if threshold value 1 undershot	Input	2 Bytes	-WC---	[7.1] DPT_Value_2_Ucount
106	Input 2 Send if threshold value 1 undershot	Input	1 Byte	-WC---	[5.10] DPT_Value_1_Ucount
107	Input 2 Send if threshold value 1 exceeded	Input	2 Bytes	-WC---	[7.1] DPT_Value_2_Ucount
107	Input 2 ZZ: Request counter reading	Input	1 Bit	-WC---	[1.1] DPT_Switch
107	Input 2 Actuating number	Input	1 Byte	-WCTU-	[5.10] DPT_Value_1_Ucount
107	Input 2 Send if threshold value 1 exceeded	Input	1 Byte	-WC---	[5.10] DPT_Value_1_Ucount
107	Input 2 Send if threshold value 1 exceeded	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
108	Input 2 ZZ: Reverse direction	Input	1 Bit	-WC---	[1.2] DPT_Bool
109	Input 2 Change temperature, tolerance band 1 lower limit	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
109	Input 2 ZZ: Reset	Input	1 Bit	-WC---	[1.2] DPT_Bool
110	Input 2 ZZ: block/unblock counting	Input	1 Bit	-WC---	[1.2] DPT_Bool
110	Input 2 Change temperature, tolerance band 1 upper limit	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
111	Input 2 Bit threshold value 2	Output	1 Bit	--CT--	[1.1] DPT_Switch
111	Input 2 Byte threshold value 2	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
111	Input 2 Temperature threshold value 2	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
111	Input 2 2-byte threshold value 2	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
112	Input 2 Send if threshold value 2 undershot	Input	1 Byte	-WC---	[5.10] DPT_Value_1_Ucount
112	Input 2 Send if threshold value 2 undershot	Input	2 Bytes	-WC---	[7.1] DPT_Value_2_Ucount
112	Input 2 Send if threshold value 2 undershot	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
113	Input 2 Send if threshold value 2 exceeded	Input	1 Byte	-WC---	[5.10] DPT_Value_1_Ucount
113	Input 2 Send if threshold value 2 exceeded	Input	2 Bytes	-WC---	[7.1] DPT_Value_2_Ucount
113	Input 2 Send if threshold value 2 exceeded	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
115	Input 2 Change temperature, tolerance band 2 lower limit	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
116	Input 2 Change temperature, tolerance band 2 upper limit	Input	2 Bytes	-WC---	[9.1] DPT_Value_Temp
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable

119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
119	Input 2 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
121	Input 3 2-byte value (-32,768 to 32,767) (event 0)	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
121	Input 3 HZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
121	Input 3 HZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
121	Input 3 1-byte value (0 to 255) (event 0)	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
121	Input 3 HZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
121	Input 3 Scene (event 0)	Output	1 Byte	--CT--	[18.1] DPT_SceneControl
121	Input 3 2-byte value (0 to 65,535) (event 0)	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
121	Input 3 2-byte floating point (event 0)	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
121	Input 3 Switching step 1	Output	1 Bit	-WCT--	[1.1] DPT_Switch
121	Input 3 Scene	Output	1 Byte	-WCTU-	[18.1] DPT_SceneControl
121	Input 3 4-byte value (-2,147,483,648 to 2,147,483,647) (event 0)	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
121	Input 3 Switching 1 actuation	Output	1 Bit	-WCT--	[1.1] DPT_Switch
121	Input 3 4-byte value (0 to 4294967295) (event 0)	Output	4 Bytes	--CT--	[12.1] DPT_Value_4_Ucount
121	Input 3 HZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
121	Input 3 Blind UP/DOWN	Output	1 Bit	-WCT--	[1.8] DPT_UpDown
121	Input 3 Switching sensor	Output	1 Bit	-WCT--	[1.1] DPT_Switch
121	Input 3 Alarm sensor	Output	1 Bit	-WCT--	[1.5] DPT_Alarm
121	Input 3 Switching	Output	1 Bit	-WCT--	[1.1] DPT_Switch
121	Input 3 Switch (event 0)	Output	1 Bit	--CT--	[1.1] DPT_Switch
121	Input 3 Priority (event 0)	Output	2 Bit	--CT--	[2.1] DPT_Switch_Control
121	Input 3 1-byte value (-128 to 127) (event 0)	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
121	Input 3 HZ: Counter reading 4-byte value	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
122	Input 3 Switching 2 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
122	Input 3 Switching step 2	Output	1 Bit	-WCT--	[1.1] DPT_Switch
122	Input 3 ZZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
122	Input 3 ZZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
122	Input 3 ZZ: Counter reading 1-byte value	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
122	Input 3 ZZ: Counter reading 4-byte value	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
122	Input 3 ZZ: Counter reading 2-byte value	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount
122	Input 3 2-byte value (-32,768 to 32,767) (event 1)	Output	2 Bytes	--CT--	[8.1] DPT_Value_2_Count
122	Input 3 Scene (event 1)	Output	1 Byte	--CT--	[18.1] DPT_SceneControl
122	Input 3 4-byte value (-2,147,483,648 to 2,147,483,647) (event 1)	Output	4 Bytes	--CT--	[13.1] DPT_Value_4_Count
122	Input 3 2-byte value (0 to 65,535) (event 1)	Output	2 Bytes	--CT--	[7.1] DPT_Value_2_Ucount

122	Input 3 1-byte value (0 to 255) (event 1)	Output	1 Byte	--CT--	[5.10] DPT_Value_1_Ucount
122	Input 3 Switch (event 1)	Output	1 Bit	--CT--	[1.1] DPT_Switch
122	Input 3 STOP/slat adjustment	Output	1 Bit	--CT--	[1.7] DPT_Step
122	Input 3 1-byte value (-128 to 127) (event 1)	Output	1 Byte	--CT--	[6.10] DPT_Value_1_Count
122	Input 3 Priority (event 1)	Output	2 Bit	--CT--	[2.1] DPT_Switch_Control
122	Input 3 Dimming	Output	4 Bit	--CT--	[3.7] DPT_Control_Dimming
122	Input 3 2-byte floating point (event 1)	Output	2 Bytes	--CT--	[9.1] DPT_Value_Temp
122	Input 3 4-byte value (0 to 4294967295) (event 1)	Output	4 Bytes	--CT--	[12.1] DPT_Value_4_Ucount
123	Input 3 Switching 3 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
123	Input 3 Top end position	Input	1 Bit	-WC---	[1.2] DPT_Bool
123	Input 3 Scene storage display	Output	1 Bit	--CT--	[1.3] DPT_Enable
123	Input 3 Start event 0/1	Input	1 Bit	-WC---	[1.1] DPT_Switch
123	Input 3 HZ: Request counter reading	Input	1 Bit	-WC---	[1.1] DPT_Switch
123	Input 3 Switching step 3	Output	1 Bit	-WCT--	[1.1] DPT_Switch
124	Input 3 HZ: Limit value exceeded	Output	1 Bit	--CT--	[1.2] DPT_Bool
124	Input 3 Bottom end position	Input	1 Bit	-WC---	[1.2] DPT_Bool
124	Input 3 Switching 4 actuations	Output	1 Bit	-WCT--	[1.1] DPT_Switch
124	Input 3 Switching step 4	Output	1 Bit	-WCT--	[1.1] DPT_Switch
125	Input 3 Save scene	Input	1 Bit	-WC---	[1.3] DPT_Enable
125	Input 3 Enable save	Input	1 Bit	-WC---	[1.3] DPT_Enable
125	Input 3 Switching, long actuation	Output	1 Bit	-WCT--	[1.1] DPT_Switch
125	Input 3 Switching step 5	Output	1 Bit	-WCT--	[1.1] DPT_Switch
126	Input 3 ZZ: Limit value exceeded	Output	1 Bit	--CT--	[1.2] DPT_Bool
126	Input 3 Switch step UP/DOWN	Input	1 Bit	-WC---	[1.1] DPT_Switch
127	Input 3 Actuating number	Input	1 Byte	-WCTU-	[5.10] DPT_Value_1_Ucount
127	Input 3 ZZ: Request counter reading	Input	1 Bit	-WC---	[1.1] DPT_Switch
128	Input 3 ZZ: Reverse direction	Input	1 Bit	-WC---	[1.2] DPT_Bool
129	Input 3 ZZ: Reset	Input	1 Bit	-WC---	[1.2] DPT_Bool
130	Input 3 ZZ: block/unblock counting	Input	1 Bit	-WC---	[1.2] DPT_Bool
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable
139	Input 3 Disable	Input	1 Bit	-WC---	[1.3] DPT_Enable

*Flag	Name	Meaning
C	Communication	Object can communicate
R	Read	Object status can be requested (ETS, display etc.)
W	Write	Object can receive information
T	Transmit	Object can send information
U	Update	Object can request a value from another bus participant. The answer is interpreted as write command and updates the value of the communication object. This is typically used to request external sensor data after a bus voltage recovery.