

**21457.1**

Vertical outdoor transponder reader KNX

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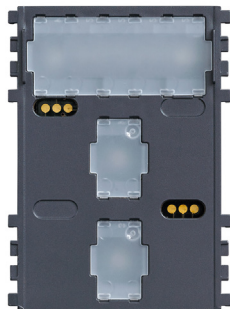
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For all the details about the Well-contact Plus system, refer to the installer manual that can be downloaded from the Software ➡ Product Software ➡ Well-contact Plus section on the website www.vimar.com.

Transponder card reader

General features and functionality

Transponder card reader for installation outside rooms, KNX standard, 2 relay outputs NO 4 A 24 V~, 2 inputs, power supply 12-24 V~ 50/60 Hz and 12-24 Vdc (SELV), to be completed with Eikon Tactil transponder 3-module room number cover plate - 3 vertical modules.



21457.1

General characteristics

This device (to be completed with Eikon Tactil cover plate art. 21666..) enables controlling entry with transponder cards to the rooms where it is installed externally.

The transponder reader is provided with two relays to control the door lock, to control a courtesy light, or for other uses; the device is moreover provided with two inputs for connecting electrical equipment of the ON / OFF type (for example to control the switch for door opening and closing, a magnetic contact for signalling windows open or closed, ceiling pull alarm, etc.).

The room number is on the front of the reader; the central led and door bell LED signal the following states:

- Central LED flashing green (entry allowed)
- Central LED flashing red (entry denied)
- Central LED on steady white (room service call)
- Central LED flashing white (re-do the room)
- Door bell LED flashing red (do not disturb)

The reader has a door bell marked by a LED which is on with a selected, configurable colour and brightness. In the cover plate the room number colour can be configured while the brightness is the same as that of the door bell.

The device is also able to signal insertion and removal of the cover plate.

The transponder reader is able to dialogue with other EIB/KNX components.

For cleaning the cover plate, simply bring near the card enabled with service access: after card recognition the bell will be disabled for 30 s.

Functions

The device controls room access and various additional functions. It also has 2 outputs and 2 inputs. The following functions are the same for both channels.

3 functions are available for the outputs:

- **Inactive**
Channel without any function.
- **Switch**
The output is switched according to the other parameters.
- **Stair light**
According to the other parameters, the output is switched for a certain period of time.

3 functions are also available for the inputs:

- **Inactive**
Channel without any function.
- **Grouped channels**
Dimmer or shutter function.
- **Single channels**
Switch, counter, scene, short/long switch function. Single key dimming, Single key shutter.

The reader is able to control a KNX monostable relay with a "Bell" icon used for precisely this reason.

Behaviour after bus on/off

Bus off: depends on the parameter settings.

Bus on: depends on the parameter settings.

Behaviour after reset

As for bus on.

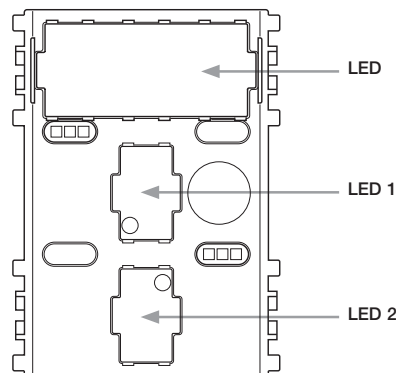
Behaviour after power supply on/off

Off: the relays return to Off.

On: as for bus on.

The device is able to signal on the bus the removal or repositioning of the front Tactil cover plate.

FRONT VIEW.



LED STATUS.

- **LED:** room number backlighting.
- **LED 1:**
 - steady green: signalling "Entry allowed" (the LED remains illuminated for approximately 3 s).
 - flashing green: signalling if the timeframe is not valid (the LED flashes for approximately 3 s).
 - steady red: signalling "Entry denied" (the LED remains on for approximately 3 s).
 - flashing red: signalling if the expiry date is not valid.
 - steady amber: signalling if the system coding is not valid.
 - flashing amber: signalling if the day of the week is not valid.
 - flashing red/green: synchronize the device's internal clock.
 - steady white: signalling "room service call".
 - flashing white: signalling "Re-do the room".
- **LED 2:**
 - on: to identify the door bell. The brightness is low and increases when the button is touched. The door bell function is disabled if the "do not disturb" signal is active.
 - flashing red: signalling "Do not disturb".

Note.

The meaning taken on by the LEDs depends on the subjects of communication (therefore the functions) that are configured in the reader with the ETS software.

ETS parameters and communication objects

List of existing communication objects (output)

General communication objects

0	transit	Transit	4 bytes	C	R	-	T	-	entrance a...	Low
1	transitAndPurse	Transit + Electronic purse	8 bytes	C	R	-	T	-		Low
2	CO_accessType1	Access guest access	1 bit	C	R	-	T	-	switch	Low
3	CO_accessType2	Access service staff	1 bit	C	R	-	T	-	switch	Low
4	CO_accessType3	Access maintenance	1 bit	C	R	-	T	-	switch	Low
5	CO_accessType4	Access installer	1 bit	C	R	-	T	-	switch	Low
6	CO_accessType5	Access security staff	1 bit	C	R	-	T	-	switch	Low
7	CO_accessType6	Access assistance	1 bit	C	R	-	T	-	switch	Low
8	CO_accessType7	Access administration	1 bit	C	R	-	T	-	switch	Low
9	CO_ScenControl	Scene control	1 byte	C	R	-	T	-		Low
12	CO_validAccess	Valid access	1 bit	C	R	-	T	-	switch	Low
13	CO_courtesyLight	Courtesy light	1 bit	C	R	-	T	-	switch	Low
14	CO_alarm1	Alarm 1	1 bit	C	-	W	T	-		Low
15	CO_alarm2	Alarm 2	1 bit	C	-	W	T	-		Low
16	CO_alarm3	Alarm 3	1 bit	C	-	W	T	-		Low
17	CO_clock	Clock	8 bytes	C	-	W	T	U		Low
18	CO_time	Time	3 bytes	C	-	W	T	U	time of day	Low
19	CO_date	Date	3 bytes	C	-	W	T	U	date	Low
20	CO_serverConfirm	Server confirm	4 bytes	C	-	W	T	U	entrance a...	Low
21	CO_plantID	Plant number	4 bytes	C	-	W	T	-	counter pu...	Low
22	CO_accessData	Access data	10 bytes	C	-	W	T	U		Low
23	CO_disableAccessType1	Disable access guest access	1 bit	C	-	W	T	-	switch	Low
24	CO_disableAccessType2	Disable access service staff	1 bit	C	-	W	T	-	switch	Low
25	CO_disableAccessType3	Disable access maintenance	1 bit	C	-	W	T	-	switch	Low
26	CO_disableAccessType4	Disable access installer	1 bit	C	-	W	T	-	switch	Low
27	CO_disableAccessType5	Disable access security staff	1 bit	C	-	W	T	-	switch	Low
28	CO_disableAccessType6	Disable access assistance	1 bit	C	-	W	T	-	switch	Low
29	CO_disableAccessType7	Disable access administration	1 bit	C	-	W	T	-	switch	Low
30	CO_ledOn1	Roomservice ON	1 bit	C	-	W	T	-	switch	Low
32	CO_ledOn2	Occupied ON	1 bit	C	-	W	T	-	switch	Low
34	CO_ledOn3	Make up ON	1 bit	C	-	W	T	-	switch	Low
36	CO_sound	Sound 1	1 bit	C	-	W	T	-	switch	Low
37	CO_repeatedSound	Repeated sound 1	1 bit	C	-	W	T	-	switch	Low
38	CO_Reset	Reset alarm	1 bit	C	-	W	T	-		Low
42	Output 1	Stair case	1 bit	C	-	W	-	-	switch	Low
46	Output 1	Status	1 bit	C	R	-	T	-	switch	Low
49	Output 2	Switch on/off	1 bit	C	-	W	-	-	switch	Low
54	Output 2	Status	1 bit	C	R	-	T	-	switch	Low
55	Output 2	Logic 1	1 bit	C	-	W	-	-	switch	Low
57	Input 1	Shutter	1 bit	C	R	-	T	-	switch	Low
58	Input 1	Shutter Stop	1 bit	C	R	-	T	-	switch	Low
62	Input 2	Shutter	1 bit	C	R	-	T	-	switch	Low
63	Input 2	Shutter Stop	1 bit	C	R	-	T	-	switch	Low
67	Ring Touch	Switch	1 bit	C	R	-	T	-	switch	Low
72	Remove Plate	Switch	1 bit	C	R	-	T	-	switch	Low
77	Central function	Switch on/off	1 bit	C	-	W	-	-	switch	Low

These objects exist only once.

41	Output 1	Switch on/off	1 bit	C	-	W	-	-	switch	Low
44	Output 1	Forced	2 bit	C	-	W	-	-	switch con...	Low
45	Output 1	Scene	1 byte	C	-	W	-	-		Low
46	Output 1	Status	1 bit	C	R	-	T	-	switch	Low
47	Output 1	Logic 1	1 bit	C	-	W	-	-	switch	Low
48	Output 1	Logic 2	1 bit	C	-	W	-	-	switch	Low
50	Output 2	Stair case	1 bit	C	-	W	-	-	switch	Low
54	Output 2	Status	1 bit	C	R	-	T	-	switch	Low

Output communication objects (example: Output A - Switch, Output B - Staircase)

57	Input 1	Counter reset	1 bit	C	-	W	-	U	switch	Low
60	Input 1	Counter	1 byte	C	R	-	T	-	counter pu...	Low
62	Input 2	Dimming On/Off	1 bit	C	R	-	T	-	switch	Low
63	Input 2	Dimming	4 bit	C	R	-	T	-	dimming c...	Low
65	Input 2	Status	1 bit	C	-	W	T	U	switch	Low

Input communication objects (example: Input A - 8-bit value counter, Input B - single key dimming)

ETS parameters and communication objects

Channel communication objects (if a channel is not active, no communication objects are present)

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
0	Transit	Transit	a message with the access card data is sent with each pass of a valid card: this object must be associated with a dedicated group for each device in each room to enable Well-Contact Suite to compile the list of accesses. This is the object through which the reader sends the "OK/KO" transit to Well-Contact Suite	4 bytes	X	X		X	
1	Transit&Purse	Transit + purse	a byte with the access card data (including monetary software data) with each pass of a valid card	8 bytes	X	X		X	
2	CO_accessType1	Guest Access	this bit is active when a valid card with a Guest (room customer) profile is recognised	1 bit	X	X		X	
3	CO_accessType2	Service Access	this bit is active when a valid card with a Service (cleaning staff) profile is recognised	1 bit	X	X		X	
4	CO_accessType3	Maintenance Access	this bit is active when a valid card with a Maintenance (facility maintenance engineer) profile is recognised	1 bit	X	X		X	
5	CO_accessType4	Installer Access	this bit is active when a valid card with an Installer (system installer) profile is recognised	1 bit	X	X		X	
6	CO_accessType5	Security Access	this bit is active when a valid card with a Security (facility security staff) profile is recognised	1 bit	X	X		X	
7	CO_accessType6	Assistance Access	this bit is active when a valid card with a Assistance (facility assistance staff) profile is recognised	1 bit	X	X		X	
8	CO_accessType7	Administration Access	this bit is active when a valid card with the Administration (facility director) profile is recognised	1 bit	X	X		X	
9	CO_Scen Control	Scene control	if the "Scene number for access XY" parameters are activated for the various Guest, Service profiles, etc. and a scene number to be activated is associated for the desired profiles) if access with a valid card with a profile enabled for activation of a scene 1..64 is recognised, when the card is passed the value of the associated scene in the parameters will be sent to that profile	1 byte	X	X		X	
12	CO_validAccess	Valid access	on recognising a valid card, this object goes to 1 to activate the electrical lock relay (remote control switch that can be automatically deactivated by this reader object after a time that can be set in the reader's parameters)	1 bit	X	X		X	
13	CO_courtesyLight	Courtesy Light	on recognising a valid card, this object goes to 1 to activate the courtesy light relay (remote control switch that can be automatically deactivated by this reader object after a time that can be set in the reader's parameters)	1 bit	X	X		X	
14	CO_alarm1	Alarm 1	alarm object inside the device (after a power failure, the internal clock should be resynchronized by sending DATE/TIME to the groups of ETS objects No. 18-19). The alarm can be reset via bus by sending an ON message to the group where the 1-bit ETS object No. 38 is associated	1 bit	X		X	X	
15	CO_alarm2	Alarm 2	alarm object inside the device ("device fault" alarm, e.g. after a CRC-ERROR). The alarm can be reset via bus by sending an ON message to the group where the 1-bit ETS object No. 38 is associated	1 bit	X		X	X	
16	CO_alarm3	Alarm 3	alarm object inside the device (list of 250 full transits without transit overwriting activated). The alarm can be reset via bus by sending an ON message to the group where the 1-bit ETS object No. 38 is associated	1 bit	X		X	X	
17	CO_clock	Clock	an object needed by Well-Contact Suite to synchronise the system devices	8 bytes	X		X	X	X
18	CO_time	Time	an object needed by Well-Contact Suite to synchronise the system devices: a single group should be created containing all the "CO_time" objects of all the readers/pockets of the system that will be synchronized simultaneously by the Well-Contact Suite software by sending a single 3-byte message.	3 bytes	X		X	X	X
19	CO_date	Date	an object needed by Well-Contact Suite to synchronise the system devices: a single group should be created containing all the "CO_date" objects of all the readers/pockets of the system that will be synchronized simultaneously by the Well-Contact Suite software by sending a single 3-byte message.	3 bytes	X		X	X	X
20	CO_serverConfirm	Server Confirm	an object needed by Well-Contact Suite to make the device wait for an Acknowledge response from the reception PC on receiving the sent access data: create a group dedicated to each reader in the system.	4 bytes	X		X	X	X

Continues

C = Communication; R = Read; W = Write; T = Transmission; U = Enable update

ETS parameters and communication objects

Continued

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
21	CO_plantID	Plant number	an object that serves to diversify systems with Well-Contact Suite software: a single group should be created containing all the "CO_plantID" objects of all the readers/pockets of the system that will be synchronized simultaneously by the Well-Contact Suite software by sending a single 4-byte message.	4 bytes	X		X	X	
22	CO_accessData	Access data	an object used by Well-Contact Suite to communicate data to the reader for card recognition (code, validity date, etc.): this is the message that Well-Contact Suite sends to readers/pockets for passing the data of valid cards to it	10 bytes	X		X	X	X
23	CO_disableAccessType1	Disable Guest Access	if this object is activated the device will deny access to the Guest card profile	1 bit	X		X	X	
24	CO_disableAccessType2	Disable Service Access	if this object is activated the device will deny access to the Service card profile	1 bit	X		X	X	
25	CO_disableAccessType3	Disable Maintenance Access	if this object is activated the device will deny access to the Service Engineer card profile	1 bit	X		X	X	
26	CO_disableAccessType4	Disable Installer Access	if this object is activated the device will deny access to the Installer card profile	1 bit	X		X	X	
27	CO_disableAccessType5	Disable Security Access	if this object is activated the device will deny access to the Security card profile	1 bit	X		X	X	
28	CO_disableAccessType6	Disable Assistance Access	if this object is activated the device will deny access to the Assistance card profile	1 bit	X		X	X	
29	CO_disableAccessType7	Disable Administration Access	if this object is activated the device will deny access to the Administration card profile	1 bit	X		X	X	
30	CO_LED1	LED 1 On	switches on/off the central white flashing LED generally used for "room service call"	1 bit	X		X	X	
32	CO_LED2	LED 2 On	switches on/off the central red flashing bell LED generally used for "do not disturb"	1 bit	X		X	X	
34	CO_LED3	LED 3 On	switches on/off the central white flashing LED generally used for "re-do the room"	1 bit	X		X	X	
36	CO_sound	Single sound	sound can be associated with a 1-bit object on the bus	1 bit	X		X	X	
37	CO_repeatedSound	Repeated sound	sound can be associated with a 1-bit object on the bus	1 bit	X		X	X	
38	CO_Reset	Alarm Reset	object used to reset the internal alarms (objects nos. 14,15,16)	1 bit	X	X		X	
39	Not used								
41	Output 1	on/off	to switch relay output On/Off (if set as "Switch")	1 bit	X			X	
42	Output 1	Staircase	to set relay output to automatically deactivate after the time set in the device parameters (if set as "Stair Light")	1 bit	X		X		
43	Output 1	Block	to block command of relay output via the bus (if set as "Switch" and the "Block" function is activated)	1 bit	X		X		
44	Output 1	Forced	to force the relay output via bus (if set as "Switch" and the "Forcing" function is activated)	2 bit	X		X		
45	Output 1	Scene	to activate a scene on the relay output (if set as "Switch" and the Scene function is activated); it is also possible to save the scene if the corresponding function is activated in the bus parameters	1 bytes	X		X		
46	Output 1	Status	to determine the On/Off status of the relay output (if set as "Switch" or as "Staircase")	1 bit	X	X		X	
47	Output 1	Logic 1	(if set as "Switch" and the "1-object/2-object logic" is activated): if a 1 bit is sent to this object the output will be activated when the "on/off" and optional "Logic-2" objects are also activated (depending on the AND/OR conditions that are managed on these objects)	1 bit	X		X		
48	Output 1	Logic 2	(if set as "Switch" and the "2-object logic" is activated): if a 1 bit is sent to this object the output will be activated when the "on/off" and "Logic-1" objects are also activated (depending on the AND/OR conditions that are managed on these objects)	1 bit	X		X		
49	Output 2	on/off	to switch relay output On/Off (if set as "Switch")	1 bit	X			X	
50	Output 2	Staircase	to set the relay output to automatically deactivate after the time set in the device parameters (if set as "Staircase")	1 bit	X		X		

Continues

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ETS parameters and communication objects

Continued

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
51	Output 2	Block	to block command of relay output via the bus (if set as "Switch" and the "Block" function is activated)	1 bit	X		X		
52	Output 2	Forced	to force the relay output via bus (if set as "Switch" and the "Forcing" function is activated)	2 bit	X		X		
53	Output 2	Scene	to activate a scene on the relay output (if set as "Switch" and the Scene function is activated); it is also possible to save the scene if the corresponding function is activated in the bus parameters	1 bytes	X		X		
54	Output 2	Status	to determine the On/Off status of the relay output (if set as "Switch" or as "Staircase")	1 bit	X	X		X	
55	Output 2	Logic 1	(if set as "Switch" and the "1-object/2-object logic" is activated): if a 1 bit is sent to this object the output will be activated when the "on/off" and optional "Logic-2" objects are also activated (depending on the AND/OR conditions that are managed on these objects)	1 bit	X		X		
56	Output 2	Logic 2	(if set as "Switch" and the "2-object logic" is activated): if a 1 bit is sent to this object the output will be activated when the "on/off" and "Logic-1" objects are also activated (depending on the AND/OR conditions that are managed on these objects)	1 bit	X		X		
57	Input 1	Switch	if the device is set to "single channels" - for On/Off command from a contact connected to the input (if set as "Switch", with "Switch on rising/falling edge" or "Toggle on rising/falling edge" or "Send Status" functions)	1 bit	X		X	X	
57	Input 1	Send value	if the device is set to "single channels" - to send a numerical value 0-255 to the bus on activation of the input (if set as "Switch", with "Send Value" of "Number" type functions)	1 byte	X	X		X	
57	Input 1	Send value	if the device is set to "single channels" - to send a numerical value 0-65535 to the bus on activation of the input (if set as "Switch", with "Send Value" of "Float" type functions)	2 bytes	X	X		X	
57	Input 1	Counter reset	if the device is set to "single channels" - to reset the value of the counter (if set as "Counter")	1 bit	X		X		X
57	Input 1	Button	if the device is set to "single channels" - to send an ON or OFF for short and long activation of the input contact, depending on the selections possible in the parameters (if set as "Short/long press switch" with "Switch" type)	1 bit	X	X		X	
57	Input 1	Send value	if the device is set to "single channels" - to send two different 1-byte values for short and long activation of the input contact, depending on the selections possible in the parameters (if set as "Short/long press switch" with "Number" type)	1 byte	X	X		X	
57	Input 1	Send value	if the device is set to "single channels" - to send two different 2-byte values for short and long activation of the input contact, depending on the selections possible in the parameters (if set as "Short/long press switch" of "Float" type)	2 bytes	X	X		X	
57	Input 1	Dimming On/Off	if the device is set to "single channels" - to perform On/Off of a dimmable light (if set as "single key dimming")	1 bit	X	X		X	
57	Input 1	Shutter	if the device is set to "single channels" - for operation of the shutter by prolonged activation of the input (if set as "1-button shutter control"), it does not control the blinds	1 bit	X	X		X	
57	Input 1/2	Dimming On/Off	if the device is set to "grouped channels" - to perform On/Off of a dimmable light by means of short activation of one input or another (if set as "dimming")	1 bit	X	X		X	
57	Input 1/2	Shutter	if the device is set to "grouped channels" - for operation of the shutter by means of activation of one input or another (if set as "shutter control")	1 bit	X	X		X	
58	Input 1	Counter threshold	if the device is set to "single channels" - to activate the counter threshold (if set as "Counter" and the "Threshold" parameter is activated with a desired value)	1 byte	X	X		X	X
58	Input 1	Dimming	if the device is set to "single channels" - to dim a light (if set as "single key dimming")	4 bit	X	X		X	

Continues

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ETS parameters and communication objects

Continued

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
58	Input 1	Roller shutter stop	if the device is set to "single channels" - to stop the shutter (if set as "1-button shutter control") with short activation of the input	1 bit	X	X		X	
58	Input 1/2	Dimming	if the device is set to "grouped channels" - to dim a light by means of prolonged activation of one input or another (if set as "dimming")	4 bit	X	X		X	
58	Input 1/2	Blind Adjustment	if the device is set to "grouped channels" - to rotate the blinds by activating one input or another (if set as "shutter control")	1 bit	X	X		X	
59	Input 1	Scene	if the device is set to "single channels" - to send a scene call-up on activation of the input (if set as "Scene" with the desired numerical value); it is also possible to cause a prolonged 2 sec. activation of the input to send a scene-save message to the bus if the parameter with "Save" function is enabled	1 byte	X	X		X	
59	Input 1	1-Bit Scene	if the device is set to "single channels" - to send a 1-bit scene call-up on activation of the input (if set as "1-bit type scene): useful for old KNX devices that operate with 1-bit scenes	1 bit	X	X		X	
60	Input 1	Status	if the device is set to "single channels" - to determine the input status (if set as "Switch" with "Toggle on rising/falling edge" function)	1 bit	X		X	X	X
60	Input 1	Counter	if the device is set to "single channels" - 8-bit value of counter that increases with the input contact pulse count according to the count settings and the bus message send settings in the Parameters (if set as "Counter" with "8 bit" type)	1 bytes	X	X		X	
60	Input 1	Counter	if the device is set to "single channels" - 16-bit value of counter that increases with the input contact pulse count according to the count settings and the bus message send settings in the Parameters (if set as "Counter" with "16 bit" type)	2 bytes	X	X		X	
60	Input 1	Counter	if the device is set to "single channels" - 32-bit value of counter that increases with the input contact pulse count according to the count settings and the bus message send settings in the Parameters (if set as "Counter" with "32 bit" type)	4 bytes	X	X		X	
60	Input 1	Status	if the device is set to "single channels" - to determine the input On/Off status (if set as "single key dimming")	1 bit	X		X	X	X
61	Input 1	Block	if the device is set to "single channels" - to stop sending Bus-commands from the Bus for the input regardless of the switching of the connected contact, when the "block" parameter is activated on the input	1 bit	X		X		X
61	Input 1/2	Block	if the device is set to "grouped channels" - to stop sending Bus-commands from the Bus for the input regardless of the switching of the connected contact, when the "block" parameter is activated on the input	1 bit	X		X		X
62	Input 2	Switch	if the device is set to "single channels" - for On/Off command from a contact connected to the input (if set as "Switch", with "Switch on rising/falling edge" or "Toggle on rising/falling edge" or "Send Status" functions)	1 bit	X		X	X	
62	Input 2	Send value	if the device is set to "single channels" - to send a numerical value 0-255 to the bus on activation of the input (if set as "Switch", with "Send Value" of "Number" type functions)	1 byte	X	X		X	
62	Input 2	Send value	if the device is set to "single channels" - to send a numerical value 0-65535 to the bus on activation of the input (if set as "Switch", with "Send Value" of "Float" type functions)	2 bytes	X	X		X	
62	Input 2	Counter reset	if the device is set to "single channels" - to reset the value of the counter (if set as "Counter")	1 bit	X		X		X
62	Input 2	Button	if the device is set to "single channels" - to send an ON or OFF for short and long activation of the input contact, depending on the selections possible in the parameters (if set as "Short/long press switch" with "Switch" type)	1 bit	X	X		X	

Continues

C = Communication; R = Read; W = Write; T = Transmission; U = Enable update

ETS parameters and communication objects

Continued

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
62	Input 2	Send value	if the device is set to "single channels" - to send two different 1-byte values for short and long activation of the input contact, depending on the selections possible in the parameters (if set as "Short/long press switch" with "Number" type)	1 byte	X	X		X	
62	Input 2	Send value	if the device is set to "single channels" - to send two different 2-byte values for short and long activation of the input contact, depending on the selections possible in the parameters (if set as "Short/long press switch" with "Float" type)	2 bytes	X	X		X	
62	Input 2	Dimming On/Off	if the device is set to "single channels" - to perform On/Off of a dimmable light (if set as "single key dimming")	1 bit	X	X		X	
62	Input 2	Shutter	if the device is set to "single channels" - for operation of the shutter by prolonged activation of the input (if set as "1-button shutter control"), it does not control the blinds	1 bit	X	X		X	
63	Input 2	Counter threshold	if the device is set to "single channels" - to activate the counter threshold (if set as "Counter" and the "Threshold" parameter is activated with a desired value)	1 byte	X	X		X	X
63	Input 2	Dimming	if the device is set to "single channels" - to dim a light (if set as "single key dimming")	4 bit	X	X		X	
63	Input 2	Roller shutter stop	if the device is set to "single channels" - to stop the shutter (if set as "1-button shutter control") with short activation of the input	1 bit	X	X		X	
64	Input 2	Scene	if the device is set to "single channels" - to send a scene call-up on activation of the input (if set as "Scene" with the desired numerical value): it is also possible to cause a prolonged 2 sec. activation of the input to send a scene-save message to the bus if the parameter with "Save" function is enabled	1 byte	X	X		X	
64	Input 2	1-Bit Scene	if the device is set to "single channels" - to send a 1-bit scene call-up on activation of the input (if set as "1-bit type scene"): useful for old KNX devices that operate with 1-bit scenes	1 bit	X	X		X	
65	Input 2	Status	if the device is set to "single channels" - to determine the input status (if set as "Switch" with "Toggle on rising/falling edge" function)	1 bit	X		X	X	X
65	Input 2	Counter	if the device is set to "single channels" - 8-bit value of counter that increases with the input contact pulse count according to the count settings and the bus message send settings in the Parameters (if set as "Counter" with "8 bit" type)	1 bytes	X	X		X	
65	Input 2	Counter	if the device is set to "single channels" - 16-bit value of counter that increases with the input contact pulse count according to the count settings and the bus message send settings in the Parameters (if set as "Counter" with "16 bit" type)	2 bytes	X	X		X	
65	Input 2	Counter	if the device is set to "single channels" - 32-bit value of counter that increases with the input contact pulse count according to the count settings and the bus message send settings in the Parameters (if set as "Counter" with "32 bit" type)	4 bytes	X	X		X	
65	Input 2	Status	if the device is set to "single channels" - to determine the input On/Off status (if set as "single key dimming")	1 bit	X		X	X	X
66	Input 2	Block	if the device is set to "single channels" - to stop sending Bus-commands from the Bus for the input having set the device to "single channels" - or regardless of the switching of the connected contact, when the "block" parameter is activated on the input	1 bit	X		X		X
67	Touch bell	Switch	to send an On/Off command over the BUS on pressing the bell if the "Enable bell" parameter is activated	1 bit	X	X		X	

Continues

C = Communication; R = Read; W = Write; T = Transmission; U = Enable update

ETS parameters and communication objects

Continued

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
72	Cover Plate Removal	Switch	to send an On and Off message over the BUS, respectively on removing and inserting the cover plate	1 bit	X	X		X	
77	Central Function	On/Off	for simultaneous control of two outputs, if the corresponding parameters are activated on the device outputs	1 bit	X		X		

C = Communication; **R** = Read; **W** = Write; **T** = Transmission; **U** = Enable update

Reference ETS parameters

Card data and software configuration

Card info

These serve to distinguish devices from different systems interfacing with monetary software.

ETS text	Available values [Default value]	Comment
Key A Upper [2 byte]	0-65535	Parameters on card cells for MyFare protocol (for monetary systems)
	[65535]	
Key A Mid [2 byte]	0-65535	
	[65535]	
Key A Lower [2 byte]	0-65535	
	[65535]	
Key A Upper [2 byte]	0-65535	
	[65535]	
Key A Mid [2 byte]	0-65535	
	[65535]	
Key A Lower [2 byte]	0-65535	
	[65535]	
Advanced Menu	0 Disabled	If enabled, a new parameter section appears with various values to be set for interfacing with monetary software (as in notes below)
	1 Enabled	
	[0]	

Data 1 - PlantID and AccessPWD

Key A Upper [2byte] 65535

Key A Mid [2byte] 65535

Key A Lower [2byte] 65535

Data 2 - Electronic purse

Key A Upper [2byte] 65535

Key A Mid [2byte] 65535

Key A Lower [2byte] 65535

Advanced Menu

☐ Disable ☒ Enable

Card info

Transponder card reader



ETS parameters and communication objects

Advanced Menu

If the "Advanced Menu" parameter is enabled, an additional page is displayed for interfacing with monetary software.

ETS text	Available values [Default value]	Comment
Block Size	0-65535 [16]	Parameters on card cells for MyFare protocol (for monetary systems)
Total block number	0-65535 [63]	
Base block address	0-65535 [4]	
Block address AUX1	0-65535 [5]	
Block address AUX2	0-65535 [6]	
Block address Keys + CCP	0-65535 [7]	
Key B Upper [2 byte]	0-65535 [65535]	
Key B Mid [2 byte]	0-65535 [65535]	
Key B Lower [2 byte]	0-65535 [65535]	
CCP upper [2 byte]	0-65535 [65535]	
CCP lower [2 byte]	0-65535 [65535]	
Base block address	0-65535 [8]	
Block address AUX1	0-65535 [9]	
Block address AUX2	0-65535 [10]	
Block address Keys + CCP	0-65535 [11]	
Key B Upper [2 byte]	0-65535 [65535]	
Key B Mid [2 byte]	0-65535 [65535]	
Key B Lower [2 byte]	0-65535 [65535]	
CCP upper [2 byte]	0-65535 [143]	
CCP lower [2 byte]	0-65535 [30472]	

Block size	16
Total block numbers	63
Data 1 - PlantID and AccessPWD	
Block address Base	4
Block address AUX1	5
Block address AUX2	6
Block address Keys + CCP	7
Key B Upper [2byte]	65535
Key B Mid [2byte]	65535
Key B Lower [2byte]	65535
CCP Upper [2byte]	143
CCP Lower [2byte]	30472
Data 2 - Electronic purse	
Block address Base	8
Block address AUX1	9
Block address AUX2	10
Block address Keys + CCP	11
Key B Upper [2byte]	65535
Key B Mid [2byte]	65535
Key B Lower [2byte]	65535
CCP Upper [2byte]	143
CCP Lower [2byte]	30472

Advanced Menu

Transponder card reader



ETS parameters and communication objects

Device configuration - General characteristics

These serve to define the behaviour of the device.

ETS text	Available values [Default value]	Comment
Plant	0...2147483647 [0]	Parameter not used (for future upgrades)
Room	0...65535 [0]	
Repetition of the Message	0...255 [1]	Determines the number of repetitions of the "Confirm transmit" message
Duration lock	0.1...5 s	Determines the number of sec. of activity of object 12 "Valid access" which if associated with a relay will activate the solenoid valve
	[0.4]	
Duration Courtesy [s]	1...65535	Determines the number of sec. after activation that object 13 of the device will be set to "0" (courtesy light turned off by the reader)
	[20]	
Black List	0=No, 1=Yes	If active, cards associated with reader by WCS will be blocked (reverse logic) by the reader
	[0]	
Single Access	0=No, 1=Yes	If enabled, the device makes no distinction regarding the type of card (guest, service, etc.), so there are no access type distinctions
	[0]	
Check date	0=No, 1=Yes [1]	Leave on "Yes"
Check day	0=No, 1=Yes [1]	
Check timeslot	0=No, 1=Yes [1]	
Access cost	0...2147483647 [0]	
Overwrite transit	0=No, 1=Yes	For future versions of WCS for storing accesses by the device after reaching the limit of 250 with software temporarily disconnected from the bus
	[0]	
Enable Card ID	0=No, 1=Yes [1]	Parameter not used
Scene number guest access	1...64, 255 [255=inactive]	Scene number for customer access
Scene Number Service Staff	1...64, 25 5 [255=inactive]	Scene number for access by service staff
Scene Number Maintenance staff	1...64, 255 [255=inactive]	Scene number for access by maintenance staff
Scene Number Installer	1...64, 255 [255=inactive]	Scene number for access by installer
Scene Number Security Staff	1...64, 255 [255=inactive]	Scene number for access by security staff
Scene Number Assistance Staff	1...64, 255 [255=inactive]	Scene number for access by assistance staff
Scene Number Administration	1...64, 255 [255=inactive]	Scene number for access by administration (director)

Plant	0
Room	0
Repetition of the Message	1
Duration Lock	0.4 s
Duration Courtesy [s]	20
Black List	<input type="radio"/> No <input checked="" type="radio"/> Yes
Single Access	<input type="radio"/> No <input checked="" type="radio"/> Yes
Check date	<input type="radio"/> No <input checked="" type="radio"/> Yes
Check day	<input type="radio"/> No <input checked="" type="radio"/> Yes
Check timeslot	<input type="radio"/> No <input checked="" type="radio"/> Yes
Access Cost	0
Overwrite Transit	<input type="radio"/> No <input checked="" type="radio"/> Yes
Scene Number Guest Access	2
Scene Number Service Staff	5
Scene Number Maintenance Staff	10
Scene Number Installer	12
Scene Number Security Staff	15
Scene Number Assistance Staff	23
Scene Number Administration	15

Device configuration

Transponder card reader



ETS parameters and communication objects

Inputs / Outputs

The following parameters are exclusive and for all channels.

General settings - inputs

ETS text	Available values [Default value]	Comment
Debounce time	10..120 ms [10]	Sets the minimum input activation time
Time button long [s]	1-30 sec. [3]	Sets the input activation time that can enable advanced functions (such as scene saving)

Debounce time [ms] 10 ms

Time Button long [s] 3,0 s

General settings

Configuration of Channels

Input/output configuration

ETS text	Available values [Default value]	Comment
Function inputs 1 and 2	0=Inactive	If you select "Grouped channels" you can control the dimmer and shutters by means of a double contact connected to inputs 1/2 (e.g. 20062)
	2=Single channels	
	1=Grouped channels	
	[0]	
Enable bell	0=No, 1=Yes	If set to "Yes" there is the communication object 67 "Touch bell"
	[1]	
Operation bell with "do not disturb"	0=Off, 1=On	Parameter present only if "Enable bell" is set to "Yes". Used to disable the bell when the "Do not disturb" function is active
	[1]	
Outputs 1/2	0: Not active	Switch: step-by-step output; Staircase: monostable output
	1: Switch	
	2: Staircase	
	[0]	

Inputs

Function Channel A / B Single channels

Enable ring ☐ No ☒ Yes

Ring during do not disturb ☒ active ☐ not active

Outputs

Output 1 not active

Output 2 not active

Channel configuration (e.g. Output A - Switch, Output B - Staircase)

Transponder card reader



ETS parameters and communication objects

Output: switch A... B

The following parameters are available for each channel and are identical for each of them. If a channel is configured as a switch, the following parameters are visible:

Switch parameters - control of outputs 1/2

ETS text	Available values [Default value]	Comment
Type	0=normally closed 1=normally open [1]	
On delay	0...30000 s [0]	On delay in seconds
Off delay	0...30000 s [0]	Off delay in seconds
Central switch function	0=inactive 1= active [0]	Central function (to control outputs 1/2 simultaneously from the bus)
Block/Forced	0=Nothing 1=Blocked 2=Forced [0]	To block or force an output from the bus
State at the beginning of the Block state	0=Off 1=On 2=no change [0]	If block active
State at the end of the block state	0=Off 1=On 2=no change [0]	If block active
Behaviour at bus power up	0=Off 1=On 2=no change [2]	
Behaviour at bus power down	0=Off 1=On 2=no change [2]	
Logic function	0=inactive 1=with one object 2=with two objects [0]	To enable logics on outputs (And/Or) with one or two objects

Type ☒ normally open ☐ normally closed

On Delay [s]

Off Delay [s]

Central Switchfunction ☐ not active ☒ active

Block / Forced

Behavior at bus power up

Behavior at bus power down

Logic Function Out 1

Scene ☒ not active ☐ active

Switch parameters

Continued

ETS text	Available values [Default value]	Comment
Logic operation	0=OR 1=AND [0]	If logic function active
Scene	0=inactive 1= active [0]	Scene activation. If active, an additional page is displayed (see "Scene parameters")

Note. Two-object switching (Logic 1 and Logic 2): a group is created for each "Logic X" object and a group for the "Output Command X" object. The And/Or mode will be applied between the command group and the two logics (for example with And Logic, to activate the output, both Logic 1 and Logic 2 and the Output command must be at 1).

ETS parameters and communication objects

Output, secondary element scene

8 scene saving options are available for each output. Each record must be assigned to the value. It is therefore possible to save 8 different

Scene parameters: scene association with outputs 1/2

ETS text	Available values [Default value]	Comment
Enable scene saving	0=blocked 1=free [0]	
Scene A	0=Off 1=On [0]	
Scene B	0=Off 1=On [0]	
Scene C	0=Off 1=On [0]	
Scene D	0=Off 1=On [0]	
Scene E	0=Off 1=On [0]	
Scene F	0=Off 1=On [0]	
Scene G	0=Off 1=On [0]	
Scene H	0=Off 1=On [0]	

scenes to the device output. With **Scene saving enable** you can also set the status of the output for the desired scene with a message from the bus (scene learn).

Scene saving enable ☒ blocked ☐ free

Scene A ☒ off ☐ on

Scene B ☒ off ☐ on

Scene C ☒ off ☐ on

Scene D ☒ off ☐ on

Scene E ☒ off ☐ on

Scene F ☒ off ☐ on

Scene G ☒ off ☐ on

Scene H ☒ off ☐ on

Scene parameters

ETS parameters and communication objects

Output, timed staircase light

The following parameters are available for each channel and are identical for each of them. If a channel is configured as

Staircase parameters: monostable control of output 1/2

ETS text	Available values [Default value]	Comment
Type	0=normally closed 1=normally open [1]	
Time staircase [s]	0... 30000 [120]	Output activated duration
Switch off warning	0=inactive 1= active [0]	To make the LED of a KNX push button blink when the relay is about to deactivate
Warning Duration [s]	0... 30000 [1]	Duration of warning (if off warning enabled). After setting a "Warning duration" and a "Prewarning duration", when the relay deactivates after the set "Time staircase" it remains Off for a time equal to the "Warning duration" and then deactivates for a time equal to the "Prewarning duration"
Prewarning Duration [s]	0... 30000 [10]	Duration of warning. Three times will be added (if off warning is active). After setting a "Warning duration" and a "Prewarning duration", when the relay deactivates after the set "Time staircase" it remains Off for a time equal to the "Warning duration" and then deactivates for a time equal to the "Prewarning duration"
Manual switch off	0=inactive 1= active [0]	If active, the relay can be deactivated before the staircase time
Central switch function	0=inactive 1= active [0]	To control the 2 outputs simultaneously from the bus

Continues

stair light, the following parameters are visible:

Type ☒ normally open ☐ normally closed

Time staircase [s]

Switch off warning ☐ not active ☒ active

Warning Duration [s]

Prewarning Duration [s]

Manual Switch Off ☒ not active ☐ active

Central Switchfunction ☒ not active ☐ active

Behavior at bus power up

Behavior at bus power down

Staircase parameters

Continued

ETS text	Available values [Default value]	Comment
Behaviour at bus power up	0=Off 1=On 2=no change [2]	
Behaviour at bus power down	0=Off 1=On 2=no change [2]	

Inputs (grouped channels)

Dimming A/B

The following parameters are available for each channel and are identical for each of them.

Sun protection A/B

The following parameters are available for each channel and are identical for each of them.

Grouped parameters

ETS text	Available values [Default value]	Comment
Input 1/2	1: Dimming 2: 2-shutter control [1] 3-deactivated	
Function dimming A/B	0: Brighter/Darker 1: Darker/Brighter [0]	Defines the activation function of IN 1 and IN 2 for the dimmer
Function Function	0: Down/Up 1: Up/Down [0]	Defines the activation function of inputs 1 and 2 for the shutter
Block	0: Inactive 1: On [0]	To inhibit the command of inputs 1/2 from the bus

Inputs 1/2

Diming Function 1/2 ☒ Brighter/Darker ☐ Darker/Brighter

Block ☒ inactive ☐ active

Dimming parameters

Inputs 1/2

Shutter Function 1/2 ☐ Up, Down ☒ Down, Up

Block ☒ inactive ☐ active

"Shutter" control parameters

ETS parameters and communication objects

Inputs (single channels)

Switch

There are 7 options for each channel. Inactive, Switch, Scene, Counter, Switch short/long, One Key Dimming, One Key Shutter.

Switch parameters - to send commands and values

ETS text	Available values [Default value]	Comment
Secondary function	0 = Switch rising edge	Rising edge = closure IN contact Falling edge = opening IN contact
	1 = Toggle rising edge	If you set "Switch" , an ON or an OFF will be sent for the chosen edge but no signal will be sent for the subsequent change of edge of the input.
	2 = Switch falling edge	If you set "Toggle" each edge selected on the input will be sent ON, OFF, ON, etc. in sequence, but you must bind the input status object to the same group too.
	3 = Toggle falling edge	
	5 = Status send	By setting "Status send" , you can choose whether to send an ON or an OFF command for one edge or the other.
	256 = Send value	
	[3]	With "Send value" you choose which byte to send.
Value falling/rising edge	0 = Off	
	1 = On	If Switch falling/rising edge
	[1]	
Value falling edge	0 = Off	
	1 = On	If "Status send" set with falling edge
	[0]	
Value rising edge	0 = Off	
	1 = On	If "Status send" set with rising edge
	[1]	
Send cyclic	0 = inactive	
	1 = active	To activate cyclic repetition in the bus
	[0]	
Cyclic send [s]	1...3000	
	[1]	If cyclic sending active
Value type	1 = Number	
	2 = Float	If set as "Switch" to send value, choose whether to send a number 0-255 or a float 0-65535
	[1]	
Value	0...255	
	[2]	If number (Value)
Float	0-65535	
	[2000]	Float (Value)
Block	0 = inactive	
	1 = active	If activated, an object appears that blocks the possibility of controlling the input if set to 1
	[0]	

Function Switch

Subfunction Switch rising edge

Value Rising Edge ☐ off ☒ on

Block ☒ inactive ☐ active

Switch parameters, "Rising edge"

Function Switch

Subfunction Status send

Value Rising Edge ☐ off ☒ on

Value Falling Edge ☒ off ☐ on

Block ☒ inactive ☐ active

Send Cyclic ☒ off ☐ on

Switch parameters, "Status send"

Function Switch

Subfunction Send value

Value Type ☒ Number (1 byte) ☐ Number (2 byte)

Value 2

Block ☒ inactive ☐ active

Switch parameters, "Send value"

ETS parameters and communication objects

Inputs (scene)

Scene parameters

The selected scene can be activated and saved if required.

ETS text	Available values [Default value]	Comment
Scene	0 = don't save	Set whether you want to save the scene with long activation of the input (or 1 bit scene for old KNX devices)
	1 = save	
	256 = 1-Bit Scene	
	[0]	
Scene Number	1-64	When the above "Scene" item is activated with the "No save" or "Save" option
	[2]	
Scene Number	1-2	If the 1 bit scene is activated
	[1]	
Block	0=inactive	If active an ETS object will be displayed, which if set to 1 blocks the scenes
	1= active	
	[0]	

Function Scene

Scene no save

Scene Number 2

Block ☒ inactive ☐ active

"Scene" parameters

Inputs (counter)

Counter parameters

These allow a counter to be incremented by the input (it is reset on bus power down).

ETS text	Available values [Default value]	Comment
Counter Type	1=8 bit	
	2=16 bit	
	3=32 bit	
	[1]	
Threshold active	0=inactive	If defined it establishes a maximum threshold for the counter
	1= active	
	[0]	
Sending Difference	0-255	8 bit (this determines the frequency in terms of number of pulses at which a message is to be sent over the bus)
	[5]	
Counter limit	0-255	8 bit
	[50]	
Sending Difference	0-65535	16 bit (determines the frequency in terms of number of pulses at which a message is to be sent over the bus)
	[100]	
Counter limit	0-65535	16 bit
	[200]	
Sending Difference	0-65535	32 bit (determines the frequency in terms of number of pulses at which a message is to be sent over the bus)
	[250]	
Counter limit	0-65535	32 bit
	[500]	
Block	0 = inactive	If active an ETS object will be displayed, which if set to 1 blocks the count
	1 = active	
	[0]	

Function Counter

Counter Type 32-bit

Threshold Active ☐ no ☒ yes

Counter Limit 500

Sending Difference 250

Block ☒ inactive ☐ active

"Counter" parameters

Transponder card reader



ETS parameters and communication objects

Inputs (switch-short/long press)

Parameters

You can define the commands that the device sends for short or prolonged activation of the input (for on/off commands).

ETS text	Available values [Default value]	Comment
Value type	Switch	
	Number	
	Float	
	[Switch]	
Short value switch	Off	This parameter is present only if "Value Type" is set to "Switch"
	On	
	Not active	
	[Off]	
Long value switch	Off	This parameter is present only if "Value Type" is set to "Switch"
	On	
	Not active	
	[Off]	
Value (short)	0-255 [0]	This parameter is present only if "Value Type" is set to "Number"
Value (long)	0-255 [1]	This parameter is present only if "Value Type" is set to "Number"
Value (short) in 1/100 Degrees	0-65535 [500]	This parameter is present only if "Value Type" is set to "Float"
Value (long) in 1/100 Degrees	0-65535 [2000]	This parameter is present only if "Value Type" is set to "Float"

Function Switch short/long

Value Type Switch

Value Short Switch off

Value Long Switch off

Block ☒ inactive ☐ active

Switch parameters, "short/long press"

Inputs (single key dimming)

Parameters

You can control a dimmer, and the on/off controls are made by briefly activating the device input while dimming is with prolonged activation.

ETS text	Available values [Default value]	Comment
Dimming step	1.5%...100% [100%]	
Repeat dimming telegrams	Yes	
	No	
	[No]	
Repetition time	0.3 s	This parameter is present only if "Repeat dimming telegrams" is set to "Yes"
	5.0 s	
	[1.0 s]	

Function One Button Dimming

Dimming steps 100%

Repeat Dimming Telegrams ☐ No ☒ Yes

Repetition time 1.0 s

Block ☒ inactive ☐ active

Control parameters, "single key dimming"

Inputs (single key roller shutter control)

Parameters

It is possible to control a roller shutter actuator by briefly activating the device's input (for stopping) or with prolonged activation (to make the roller shutter move).

Function One Button Shutter

Block ☒ inactive ☐ active

Control parameters, "single key roller shutter control"

ETS parameters and communication objects

Cover plate type settings

As reader 21457.1 is installed vertically, set "Vertical".

Plate type

☐ Horizontal ☒ Vertical

Cover plate type settings

Setting the LEDs

It is possible to set the room number colour and bell LED colour. It is also possible to set the bell LED and room number brightness.

ETS text	Available values [Default value]	Comment
Colour section-Room Number	Predefinided colours Custom colours [Default colours]	
Colour value	Amber	This parameter is present only if "Colour section-Room Number" is set as "Predefinided colours". It lets you select the colour of the LED from a list of default colours
	White	
	Red	
	Green	
	Blue	
	Cyan	
	Magenta	
	Disabled	
	[Amber]	
Red Green Blue	0...255	These parameters are present only if "Colour section-Room Number" is set as "Custom colours". It lets you select the RGB coordinates of the LED colour
	[255]	
Colour section-Ring	Predefinided colours Custom colours [Default colours]	
Colour value	Amber	This parameter is present only if "Colour section-Ring" is set as "Predefinided". It lets you select the colour of the LED from a list of default colours
	White	
	Red	
	Green	
	Blue	
	Cyan	
	Magenta	
	Disabled	
	[Amber]	
Red Green Blue	0...255	These parameters are present only if "Colour section-Bell" is set as "Custom colours". It lets you select the RGB coordinates of the LED colour
	[255]	
LED intensity	1...100	Parameter to adjust the brightness of the ring LED and the room number
	[100]	

Plate type

☐ Horizontal ☒ Vertical

Color selection - Room Number

☒ predefined colours ☐ custom colours

Colour value

Amber (R 255, G 40, B 0)

Color selection - Ring

☒ predefined colours ☐ custom colours

Colour value

Cyan (R 0, G 255, B 255)

LED intensity

100

"User interface" parameters

FAQs

1. What do objects 14, 15 and 16 represent?

- *no.14 CO_alarm1*: the internal clock requires an update (e.g. after a power failure)
- *no.15 CO_alarm2* device fault (for example an internal CRC error)
This is a **serious error** that should never occur. If it does, reprogram the device using ETS (the problem may be due to a **device memory malfunction**).
- *no.16 CO_alarm3* full list of transits: this is not in itself a device error condition but a possible system state. Activation of this object may occur if you choose to use the internal transit list in "Overwrite transit" = "No" mode and the PC has been disconnected from the reader for a long period of time.
As it is unable to communicate the transits to the Well-contact Suite software, the device saves them in its internal memory. In the future data acquisition by Well-Contact Suite will be implemented.

2. What's the best solution for turning off the *Courtesy light* (controlled by a remote switch connected to the external reader) when the pocket reader disconnects power from the loads after removal of the card?

A group is used to do this. In particular, object "13 CO_courtesyLight" of the external reader is very useful.

- Configure the *courtesy light* so that it is controlled by object "13 CO_courtesyLight" of external reader (this object will first go to "1" and then to "0" on recognition of a valid card, after a time interval that can be set in the reader's "Duration Courtesy" parameter).
- Also configure the *courtesy light* in object 11 CO_light of pocket reader.

Entrance:

- when the guest enters the room, the *courtesy light* comes on: object "CO_courtesyLight", value "On";
- when the card is inserted in the pocket, the "CO_light, value ON" message is sent (this message has no effect because the light is already on);
- when the timeout expires, the *courtesy light* is turned off by the "CO_courtesyLight" message, value "Off".

Exit:

- When the card removed from the pocket, an "Off" message is sent to the *courtesy light*: object "CO_light", value "Off". The message is sent when the "Duration Light" timeout expires.
So if the *courtesy light* was turned on by the guest, it is now turned off.

3. Is it possible to enable the *Room energy* relay for just 30 seconds when the card is swiped over the external reader and then keep *Room energy* active when the card is inserted in the internal pocket?

Yes, this can be done by using a single relay associated with the *courtesy light* object (together with this light's actuator, if present) and setting the reader parameter "Duration Courtesy = 30 sec."

At the same time the *Relay block* object that manages the power to the energy enabling group of the inside pocket (object no. 10 of the pocket) will be associated, defining on the relay parameters that the *Relay block* is enabled and the status of the relay on block activation is "On" and on deactivation it is "Off".

If, after swiping the card over the reader, you insert the card into the pocket, the relay is locked "On" and then ignores the "Off" coming from the external reader after 30 seconds; pulling the card out of the pocket will set to "0" the *Relay block* ("Off" via parameter).

4. Is there an object that blocks the input/button (effectively disabling it so that it does not send messages)?

Yes, there is an object that blocks the input/button (effectively disabling it so that it does not send messages) that operates as follows:

- associate the "blocking object" of the desired input/button with a group;
- if an "On" message is sent to the group, the input is blocked;
- if an "Off" message is sent to the group, the input is enabled.

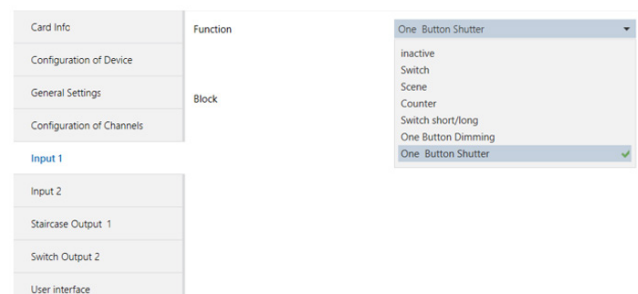
There is no object in the pocket reader that sends an "Off" message when the card is inserted (to enable the input/button) and an "On" message when the card is removed (to block the input/button).

5. Is it possible to control the shutter by means of conventional buttons connected to the readers (external and/or pocket)?

This can be done by connecting a simple conventional button to the reader's input. However, this solution is fairly impractical because various types of button press are required to control the shutter:

- *long press* = movement (open/close);
- *short press* = stop;
- *short press then long press* = reverses direction of movement.

If you still want to adopt this solution, you must set the reader's input as shown in the following figure.



FAQs

6. In the event of a power failure, how long will the reader keep the date and time in memory?

Both devices keep the date and time for at least 2 days.

7. What is the readers' "server acknowledge" object used for?

Activation of this object is used for Well-Contact Suite software functions: it forces the reader to wait for a message from the software (sent automatically) acknowledging reception of a transit by the supervision PC before the transit is saved in the internal list. If it does not receive a reception confirmation message, it reattempts to send the transit to Well-contact Suite the number of times set in the device parameters.

A group must be created for each individual reader (e.g. with 10 rooms with pocket readers and one common access, 21 groups will be created). This will also enable WCS to save the transits of the various people on the various readers and the various presences with pocket reader card insertion/removal times.

8. How many scenes can be saved on the device outputs?

On/Off states for 8 different scenes can be saved. In particular, by enabling "Enable scene saving" you can also save the state of the relevant output for the desired scene from the 8 available, by sending a message over the Bus (Scene Learn).

9. Enabling an output using the Logic present in the parameters.

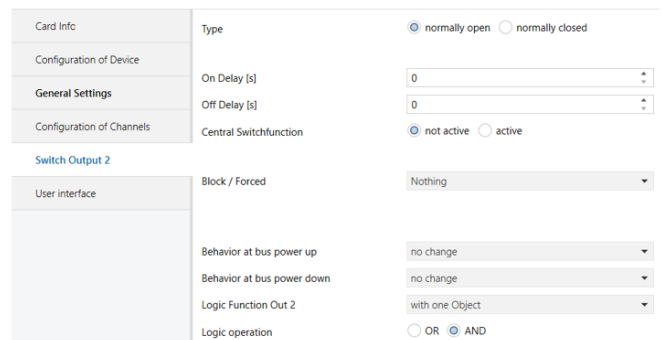
For example, a device output can be activated when one of its inputs is activated only if a valid card is inserted in the pocket. If for example you want to activate OUT-2 of the pocket to turn on heating when the card is inserted but you also want the opening of a window contact connected to IN-1 to turn heating off until the window is closed, you have to activate the Logic Function on the output and link it with a (1 bit) object using the OUT-2 parameters of 21457.1 and also select AND Logic Operation. In detail:

create 1st group which enables output 2 when the card is inserted and activates the logic: activation of the output will be linked in a group to energy enabling by pocket 20453 (by means of object "CO_Energy – Enable Energy", with a link to the "Output 2 – on/off" object) and the logic on the output will be linked to the same group with the relevant "Output 2 - Logic 1" object.

Create the 2nd group to disable/enable output 2 when the window is opened/closed: this creates a second group with which the inputs to which the window contact is connected and the object "Output 2 – on/off" will be associated; the contact will force the output 2 relay to On/Off; but now you have to associate a logic to enable this to be done only if the card is inserted in the pocket.

Let's look in detail at how to set the Logic parameters and create the 2 groups (using IN-1 and OUT-2 of a card reader 21457.1 to create the two groups):

inserting the card activates the output by setting its Logic to "1": from this point on the output will also be controlled by the window contact group; if the card is not inserted, the Logic remains at "0" so other groups such as the window contact group are unable to control switching.



The screenshot shows a configuration interface for a transponder card reader. It includes sections for Card Info, Configuration of Device, General Settings, Configuration of Channels, Switch Output 2, and User interface. The General Settings section is expanded, showing parameters like Type (normally open/closed), On Delay [s], Off Delay [s], Central Switchfunction (not active/active), Block / Forced (Nothing), Behavior at bus power up/down (no change), Logic Function Out 2 (with one Object), and Logic operation (OR/AND).

10. Which external reader objects are used to control an electrical lock and a courtesy light when a valid card is swiped?

Objects 12 and 13 control both "On" and "Off" if associated with two remote control switches after a time that can be set in the corresponding reader parameters; therefore object 12 "CO_validAccess" controls an electric lock and 13 "CO_courtesyLight" controls a courtesy light. The device will set the two objects to "Off", deactivating the two relays, which as they are step-by-step relays can also be used in bistable mode in other groups.

11. What is object 9 "Scene control" used for?

It is a 1 byte object. If in the device configuration parameters scenes have been associated with the various access profiles (guest, service, etc.), when a card of that type is recognised the device sends the corresponding scene value for that type of card to the bus. This means that various scenes can be activated within that group depending on the card used. For example, when a guest enters a dimmer turns on at 50%, when service staff enter it does not turn on at all, and perhaps with the maintenance staff card is recognised it turns on at 100%. If the card is used in the pocket, note that its removal has no effect on this object, so no other messages are obtained on the bus for other uses.

12. How many guest cards can the external reader memorise?

They can memorise up to 2,000 cards (so for example they can manage up to 2,000 different guests in a common access).

13. I am unable to make the external reader LED flash when the service staff are in the room in spite of the fact that in the ETS project and in the Well-Contact Suite the staff card has been created with the same type of access.

One of the pocket ETS parameters in the "General Characteristics" section is called "Single Access". If this parameter is set to "Yes" the pocket verifies the type of card that has been inserted, simply checking its validity.

If the parameter is set to "No", it also manages the types of card and sends the addresses configured with ETS. In this case the pocket properties (from 2 to 8) corresponding to the different types of access will appear (for example for room service access, object no. 3 is set).

FAQs

14. Influence on the LEDs associated with the alarm and the presence of the guest.

WCS reads the pocket every 3 minutes to check for the presence of the guest in the room. Sometimes, if the guest presence is associated with blinking of the external reader LED and the blinking is associated with the bathroom alarm condition, WCS may interpret the blinking of the LED as an alarm in progress condition.

This is attributable to the flags of the objects associated with the LEDs in the ETS project.

It is a specific function implemented in WCS for LED control. In this case it is sufficient to use the LEDs in blinking mode for the alarm and in steady light mode to indicate the presence of the guest in the room.

15. Why does the middle yellow LED flash when the card is swiped over the external reader and the electrical lock not open?

You need to resend the "system code" from Well-contact Suite.

16. What is the card Black List that can be imported into the parameters?

It is a parameter that can be set on the devices in ETS. If you set the device to "Black List", the cards that are added and associated with guests by Well-contact Suite will be blocked instead of being recognised by the device. The "Black List" works with negative logic on the device. In practice, WCS reasons as if the devices were on a "Whitelist". In detail, the card will not provide access to the rooms highlighted in green but will provide access to those highlighted in white because the devices have the parameter activated in ETS to make them work with reverse logic.

17. How can I delete the external reader transit logs? What is the maximum number of transits that can be saved by a reader?

In the ETS project the reader parameter called "*Transit list overwrite*" is selected. A maximum of 250 transits can be memorised. When this value is exceeded, the reader overwrites the list, eliminating the oldest transits and replacing them with the most recent ones.

18. How is the relay to be associated with the "bell" function managed?

The reader sends an "On" command to the group associated with object 67 on pressing the icon and an "Off" command on releasing it; the associated relay must then be configured as bistable.

19. Why does the middle LED on the reader keep on flashing red/green?

You need to send the date/time from the "Utilities" menu of Well-Contact Suite.

20. Is the reader able to signal removal of the front cover plate?

Yes, the device is able to detect the removal or repositioning of the cover plate and signal it via a 1 bit ETS object (object 72) that must be associated with the relevant group. If then, in the Well-Contact Suite software, this group is defined as a "type-alarm" group, then by associating it as a "reset-alarm" group, on removing the cover plate, the software will display a "cover plate theft" pop-up that will reset only when the cover plate is repositioned over the reader.

21. Is it possible to disable the "bell" function if the guest in the room has activated the "Do not disturb" function?

Yes, it is possible to inhibit it via ETS by turning off the parameter "*Bell operation with Do Not Disturb*".

22. Is it possible to increase/decrease the brightness of the "bell" icon?

Yes, via the ETS parameter "*Bell LED brightness*".

23. Can the reader also work with transponder cards of other companies?

No; Vimar guarantees it will work exclusively with cards art. 01598.

24. Can the reader also work with other supervision software?

No; the device can only be used with Well-Contact Suite.

25. Is it possible to activate an ETS scene upon card recognition?

Yes, by using ETS object No. 9 and the parameter "*Scene number for XY access*" the reader will activate the desired scene (No. 1..64) with a bus-message on recognising the specific type of card (*guest, service, etc.*).

26. When do you use a horizontal cover plate, and when do you use a vertical one?

Use the horizontal cover plate for art. 21457 and the vertical cover plate for art. 21457.1.



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