Instructions manual

TACTIL transponder reader for outside the room art. 21457

Installation manual

WELL-CONTACT PLUS

VIMAR

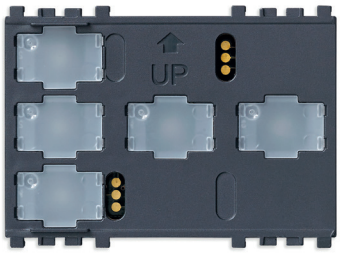
Contents

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

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



21457

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.).
On the front of the reader there are four LEDs each of which associated with an icon for signalling the following states:

- Access (entry allowed or entry denied);
- Guest status (room occupied or do not disturb);
- Call status (rescue request with bathroom ceiling pull-cord, room service call, etc.).
- Services status (make up room, etc.);

In guest status, call status and services status, the colour of the LED can be set during configuration.
The reader is equipped with a bell identified by a low-lit LED (if the feature is enabled); in this case, too, the colour of the LED is programmable.
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

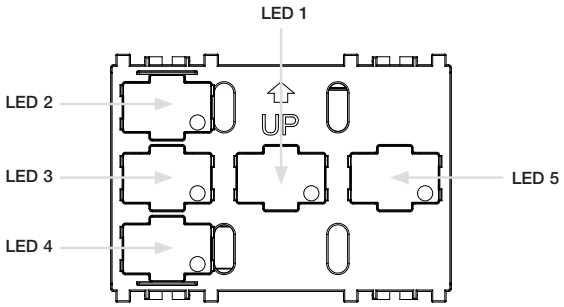
As for bus on.

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 1:**
  - steady green: signalling “Entry allowed” (the LED remains illuminated for approximately 3 s).
  - blinking green: signalling if the timeframe is not valid (the LED blinks for approximately 3 s).
  - steady red: signalling “Entry denied” (the LED remains illuminated for approximately 3 s).
  - blinking red: signalling if the expiry date is not valid.
  - steady amber: signalling if the system coding is not valid.
  - blinking amber: signalling if the day of the week is not valid.
  - blinking red/green: synchronize the device's internal clock.
- **LED 2:** signalling “Room service call.”
- **LED 3:** signalling “Do not disturb.”
- **LED 4:** signalling “Make up room.”
- **LED 5:** on - identifying bell. The brightness is low and becomes high on touching the button. The doorbell function is disabled if the "do not disturb" signal is active.

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

Numero	Nome	Funzione oggetto	Descrizione	Indirizzi di gruppo	Lunghezza	C	R	W	T	U	Tipo dati	Priorità
0	transito	Transito			4 Byte	C	R	-	T	-		Basso
1	transitAndPurse	Transito + Borsellino			8 Byte	C	R	-	T	-		Basso
2	CO_AccessoTipo1	Accesso ospite			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
3	CO_AccessoTipo2	Accesso servizio			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
4	CO_AccessoTipo3	Accesso manutenzione			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
5	CO_AccessoTipo4	Accesso installatore			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
6	CO_AccessoTipo5	Accesso sicurezza			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
7	CO_AccessoTipo6	Accesso assistenza			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
8	CO_AccessoTipo7	Accesso amministratore			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
9	CO_ControlloScenario	Controllo scenario			1 Byte	C	R	-	T	-		Basso
12	CO_AccessoValido	Accesso valido			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
13	CO_LuceDiCortesia	Luce di cortesia			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
14	CO_allarme1	Allarme1			1 bit	C	-	W	T	-		Basso
15	CO_allarme2	Allarme2			1 bit	C	-	W	T	-		Basso
16	CO_allarme3	Allarme3			1 bit	C	-	W	T	-		Basso
17	CO_orologio	Orologio			8 Byte	C	-	W	T	U		Basso
18	CO_ora	Ora			3 Byte	C	-	W	T	U	Time DPT_Tim...	Basso
19	CO_data	Data			3 Byte	C	-	W	T	U	Date DPT_Date	Basso
20	CO_ConfermaServer	Conferma del server			4 Byte	C	-	W	T	U		Basso
21	CO_IDimpianto	Numero impianto			4 Byte	C	-	W	T	-	4 byte unsigne...	Basso
22	CO_DatiAccesso	Dati di accesso			10 Byte	C	-	W	T	U		Basso
23	CO_DisabilitaAccessoTipo1	Disabilita accesso ospite			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
24	CO_DisabilitaAccessoTipo2	Disabilita accesso servizio			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
25	CO_DisabilitaAccessoTipo3	Disab. accesso manutenzione			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
26	CO_DisabilitaAccessoTipo4	Disab. accesso installatore			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
27	CO_DisabilitaAccessoTipo5	Disabilita accesso sicurezza			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
28	CO_DisabilitaAccessoTipo6	Disabilita accesso assistenza			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
29	CO_DisabilitaAccessoTipo7	Disab. accesso amministratore			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
30	CO_Led1	LED 1 On			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
31	CO_LampeggioLed1	LED 1 lampeggio veloce			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
32	CO_Led2	LED 2 On			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
33	CO_LampeggioLed2	LED 2 lampeggio veloce			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
34	CO_Led3	LED 3 On			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
35	CO_LampeggioLed3	LED 3 lampeggio veloce			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
36	CO_suono	Suono singolo			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
37	CO_SuonoRipetuto	Suono ripetuto			1 bit	C	-	W	T	-	1 bit DPT_Switch	Basso
38	CO_Reset	Reset allarme			1 bit	C	-	W	T	-		Basso
67	Tocco campanello	Commutatore			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
72	Rimozione Placca	Commutatore			1 bit	C	R	-	T	-	1 bit DPT_Switch	Basso
77	Funzione centralizzata	Commutatore			1 bit	C	-	W	-	-	1 bit DPT_Switch	Basso

These objects exist only once.

41	Uscita 1	Accensione/spegnimento		1 bit	C	-	W	-	-		Basso
46	Uscita 1	Stato		1 bit	C	R	-	T	-		Basso
50	Uscita 2	Luce scala		1 bit	C	-	W	-	-		Basso
51	Uscita 2	Blocco		1 bit	C	-	W	-	-		Basso
54	Uscita 2	Stato		1 bit	C	R	-	T	-		Basso
57	Ingresso 1	Commutatore	8/4/1	1 bit	C	R	-	T	-		Basso
62	Ingresso 2	Commutatore	7/4/1	1 bit	C	R	-	T	-		Basso

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

57	Ingresso 1	Reset del contatore		1 bit	C	-	W	-	U		Basso
60	Ingresso 1	Contatore		1 Byte	C	R	-	T	-		Basso
62	Ingresso 2	Regolazione on/off		1 bit	C	R	-	T	-		Basso
63	Ingresso 2	Regolazione dimmer		4 bit	C	R	-	T	-		Basso
65	Ingresso 2	Stato		1 bit	C	-	W	T	U		Basso

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	
10	CO_Energy	Enable Energy	on recognising a valid card this object commands the room's ENERGY FM relay	1 bit	X	X		X	
11	CO_Light	Enable Light	on recognising a valid card this object commands the room's GENERAL LIGHT relay	1 bit	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

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
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
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	controls on/off of 1st LED generally used for "room service call"	1 bit	X		X	X	
31	CO_ledBlink1	LED 1 fast blink	fast blinking of LED1	1 bit	X		X	X	
32	CO_LED2	LED 2 On	controls on/off of 2nd LED generally used for "do not disturb"	1 bit	X		X	X	
33	CO_ledBlink2	LED 2 Fast blink	fast blinking of LED2	1 bit	X		X	X	
34	CO_LED3	LED 3 On	controls on/off of 3rd LED generally used for "make up room"	1 bit	X		X	X	
35	CO_ledBlink3	LED 3 Fast blink	fast blinking of LED3	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		

Continues

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ETS parameters and communication objects

Continued

No.	ETS name	Function	Description	length	Flag 1				
					C	R	W	T	U
48	Output 1	Logic 2	(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 "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		
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 "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 "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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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	

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
57	Input 1/2	Shutter	if the device is set to "grouped inputs" - 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 inputs" - 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 inputs" - to dim a light (if set as "single key dimming")	4 bit	X	X		X	
58	Input 1	Roller shutter stop	if the device is set to "single inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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	

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 inputs" - 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 inputs" - 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 inputs" - 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	
62	Input 2	Send value	if the device is set to "single inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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 inputs" - 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	

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
65	Input 2	Status	if the device is set to "single inputs" - 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 inputs" - to stop sending Bus-commands from the Bus for the input having set the device to "single inputs" - 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	
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

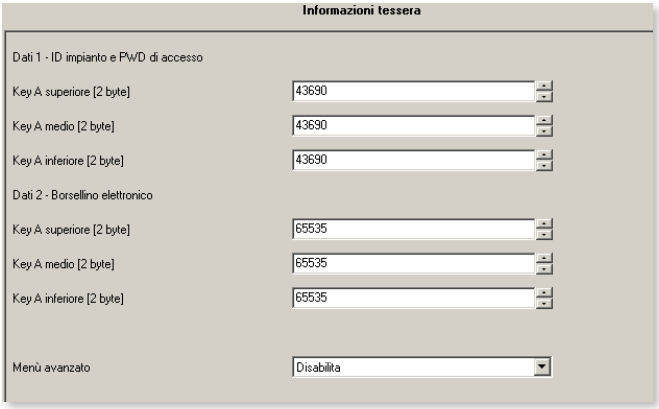
Reference ETS parameters

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]	



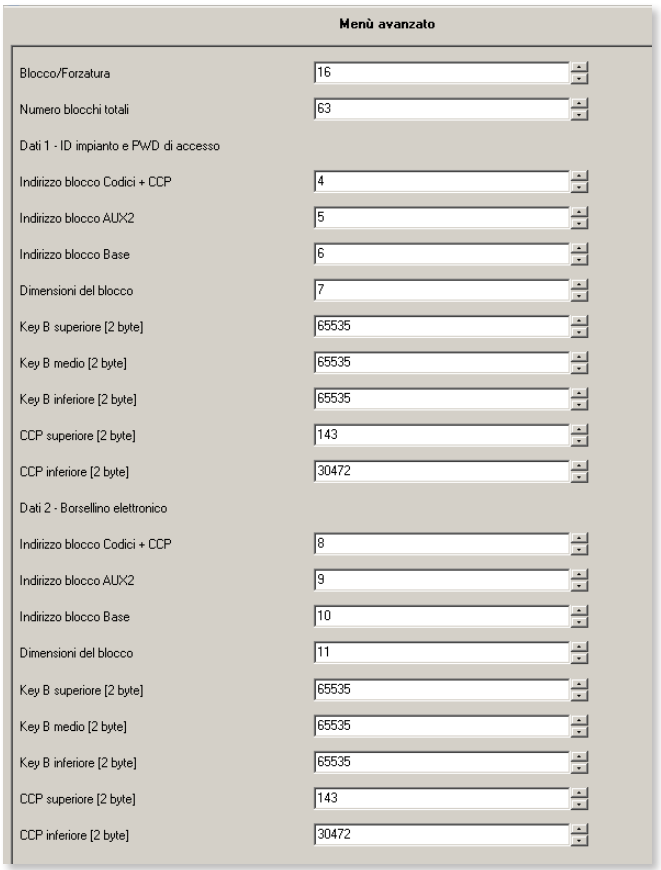
Card info

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]**	



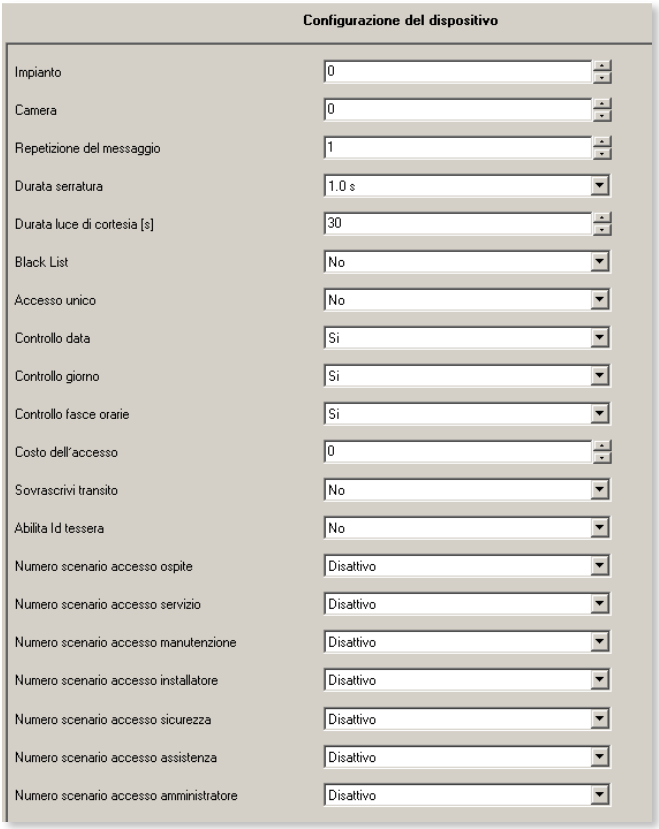
Advanced Menu

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 **[0.4]**	Determines the number of sec. of activity of object 12 "Valid access" which if associated with a relay will activate the solenoid valve
Duration Courtesy [s]	1...65535 **[20]**	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)
Black List	0=No, 1=Yes **[0]**	If active, cards associated with reader by WCS will be **blocked** (reverse logic) by the reader
Single Access	0=No, 1=Yes **[0]**	If enabled, the device makes no distinction regarding the type of card (guest, service, etc.), so there are no access type distinctions
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]**	For monetary software (if present)
Overwrite transit	0=No, 1=Yes **[0]**	For future versions of WCS for storing accesses by the device after reaching the limit of 250 with software temporarily disconnected from the bus
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)



Device configuration

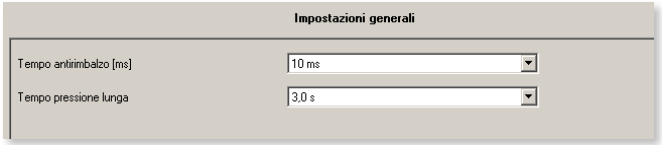
ETS parameters and communication objects

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	Sets the minimum input activation time
	[10]	
Time button long [s]	1-30 sec.	Sets the input activation time that can enable advanced functions (such as scene saving)
	[3]	

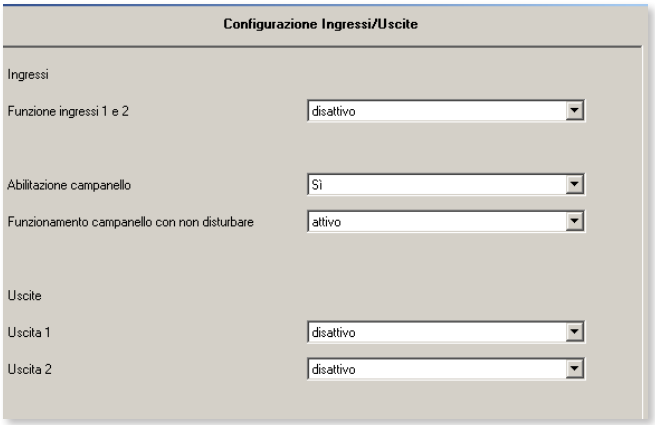


General settings

Configuration of Channels

Input/output configuration

ETS text	Available values [Default value]	Comment
Function inputs 1 and 2	0=Inactive	If you select "Grouped inputs" you can control the dimmer and shutters by means of a double contact connected to inputs 1/2 (e.g. 20062)
	2=Single inputs	
	1=Grouped inputs	
	[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]	



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

Continues

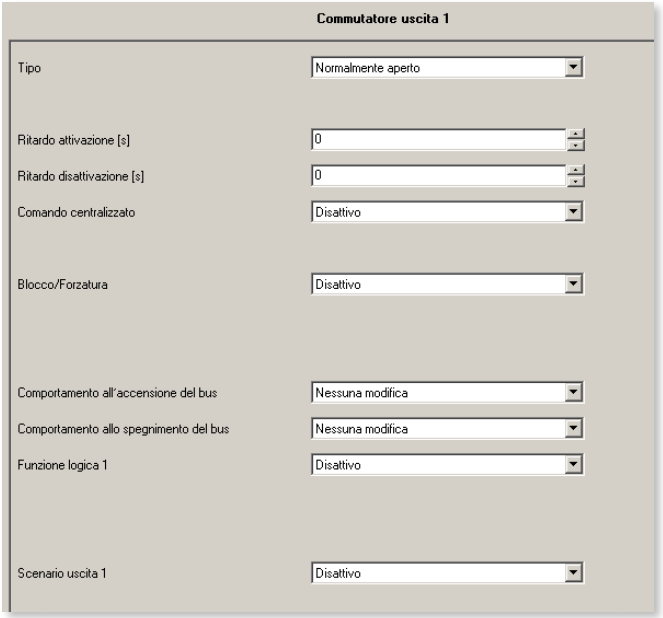
ETS parameters and communication objects

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



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).

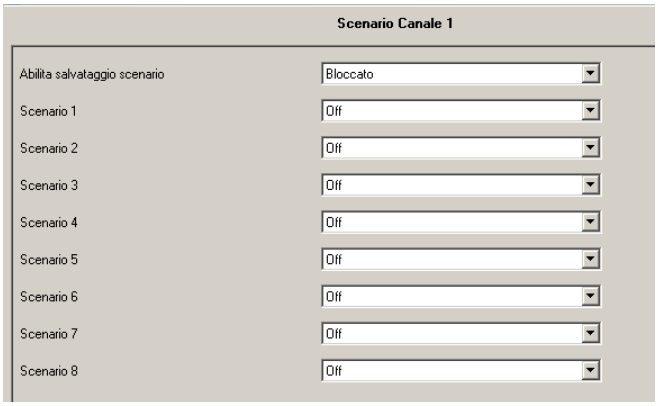
ETS parameters and communication objects

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 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 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]**	

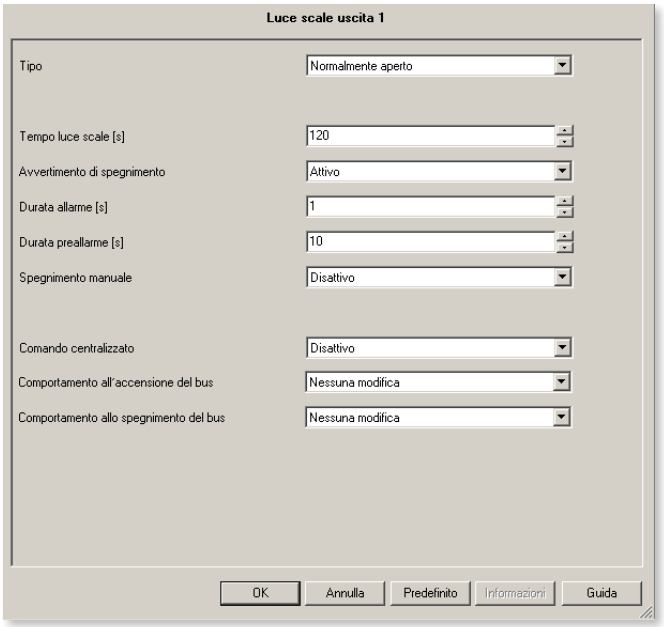


Scene parameters

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 stair light, the following parameters are visible:



Staircase parameters

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

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]**	

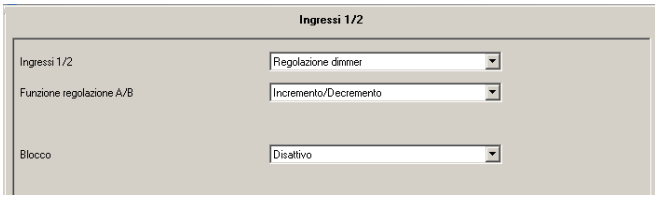
Inputs (grouped inputs)

Dimming A/B

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

Sun protection A/B

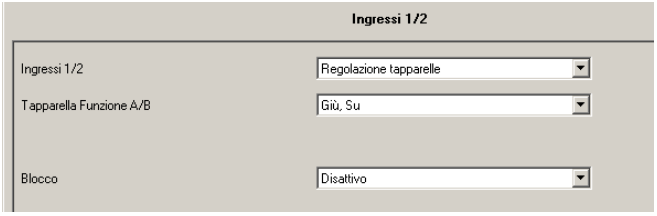
The following parameters are available for each channel and are identical for each of them.



Dimming parameters

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



"Shutter" control parameters

ETS parameters and communication objects

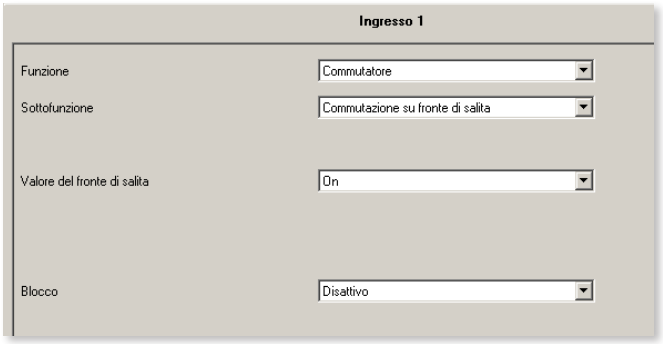
Inputs (single inputs)

Switch

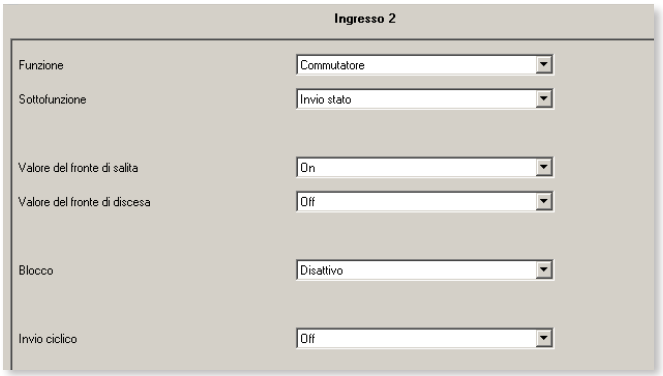
There are 7 options for each channel. Inactive, Switch, Scene, Counter, Switch short/long, One Key Dimming, One Key Shutter.

Switch parameters - to send commands and values

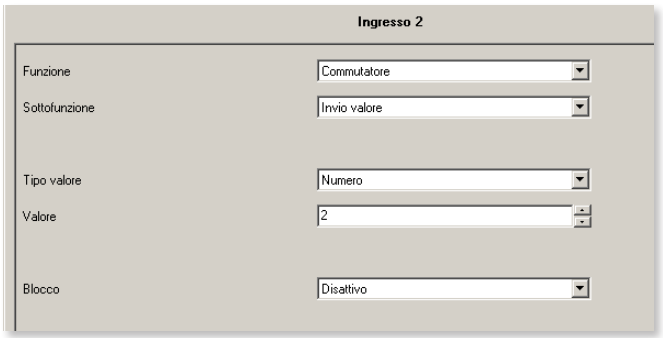
ETS text	Available values [Default value]	Comment
Secondary function	0 = Switch rising edge	Rising edge = closure IN contact Falling edge = opening IN contact
	1 = Toggle rising edge	If you set **"Switch"**, an ON or an OFF will be sent for the chosen edge but no signal will be sent for the subsequent change of edge of the input. 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.
	2 = Switch falling edge	
	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 **[1]**	If Switch falling/rising edge
Value falling edge	0 = Off 1 = On **[0]**	If "Status send" set with falling edge
Value rising edge	0 = Off 1 = On **[1]**	If "Status send" set with rising edge
Send cyclic	0 = inactive 1 = active **[0]**	To activate cyclic repetition in the bus
Cyclic send [s]	1…3000 **[1]**	If cyclic sending active
Value type	1 = Number 2 = Float **[1]**	If set as "Switch" to send value, choose whether to send a number 0-255 or a float 0-65535
Value	0…255 **[2]**	If number (Value)
Float	0-65535 **[2000]**	Float (Value)
Block	0 = inactive 1 = active **[0]**	If activated, an object appears that blocks the possibility of controlling the input if set to 1



Switch parameters, "Rising edge"



Switch parameters, "Status send"



Switch parameters, "Send value"

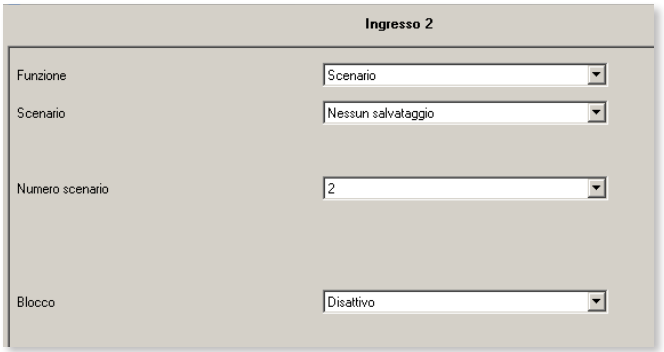
ETS parameters and communication objects

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]	



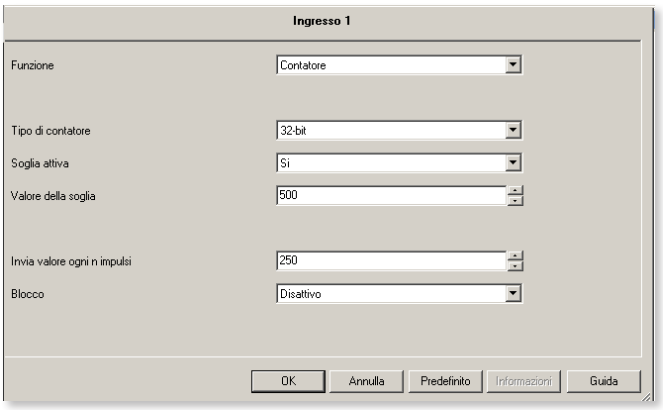
"Scene" parameters

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]	



"Counter" parameters

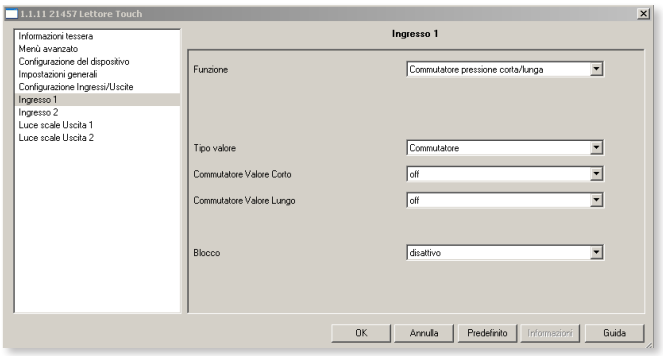
ETS parameters and communication objects

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	This parameter is present only if "Value Type" is set to "Number"
	[0]	
Value (long)	0-255	This parameter is present only if "Value Type" is set to "Number"
	[1]	
Value (short) in 1/100 Degrees	0-65535	This parameter is present only if "Value Type" is set to "Float"
	[500]	
Value (long) in 1/100 Degrees	0-65535	This parameter is present only if "Value Type" is set to "Float"
	[2000]	



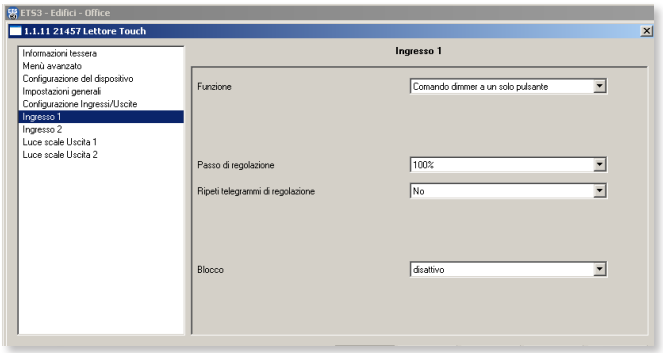
Switch parameters, "short/long press"

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]	

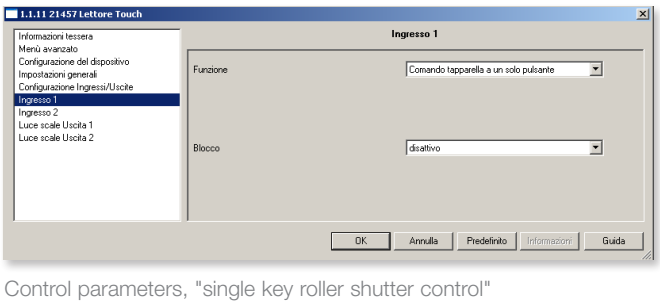


Control parameters, "single key dimming"

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).



Control parameters, "single key roller shutter control"

ETS parameters and communication objects

User interface

It is possible to define the colours of the various LEDs and set the brightness of a "bell" icon.

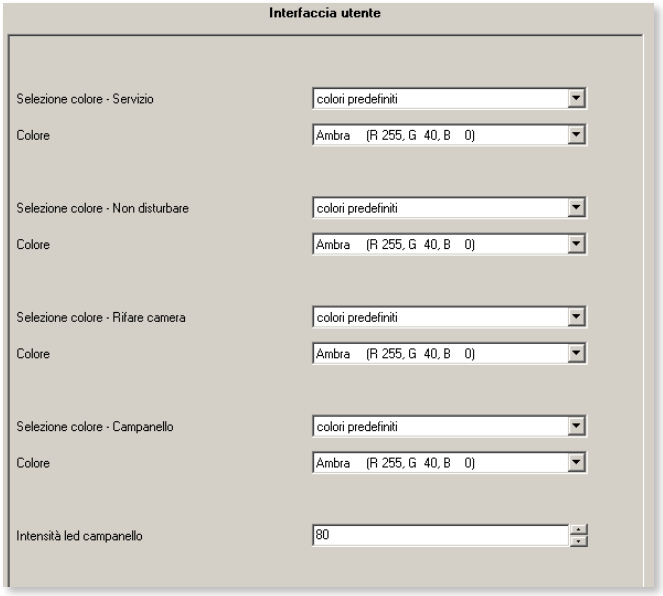
Setting the LEDs

ETS text	Available values [Default value]	Comment
Colour section-Service	Default colours Custom colours **[Default colours]**	
Colour	Amber White Red Green Blue Cyan Magenta Disabled **[Amber]**	This parameter is present only if "Colour section-Service" is set as "Default colours". It lets you select the colour of the LED from a list of default colours
Red Green Blue	0…255 **[255]**	These parameters are present only if "Colour section-Service" is set as "Custom colours". It lets you select the RGB coordinates of the LED colour
Colour section-Do not disturb	Default colours Custom colours **[Default colours]**	
Colour	Amber White Red Green Blue Cyan Magenta Disabled **[Amber]**	This parameter is present only if "Colour section-Do not disturb" is set as "Default colours". It lets you select the colour of the LED from a list of default colours
Red Green Blue	0…255 **[255]**	These parameters are present only if "Colour section-Do not disturb" is set as "Custom colours". It lets you select the RGB coordinates of the LED colour
Colour section-Make up room	Default colours Custom colours **[Default colours]**	
Colour	Amber White Red Green Blue Cyan Magenta Disabled **[Amber]**	This parameter is present only if "Colour section-Make up room" is set as "Default colours". It lets you select the colour of the LED from a list of default colours
Red Green Blue	0…255 **[255]**	These parameters are present only if "Colour section-Make up room" is set as "Custom colours". It lets you select the RGB coordinates of the LED colour

Continues

Continued

ETS text	Available values [Default value]	Comment
Colour section-Bell	Default colours Custom colours **[Default colours]**	
Colour	Amber White Red Green Blue Cyan Magenta Disabled **[Amber]**	This parameter is present only if "Colour section-Bell" is set as "Default colours". It lets you select the colour of the LED from a list of default colours
Red Green Blue	0…255 **[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
LED brightness bell	1...100 **[8]**	Parameter to adjust the brightness of the bell LED.



"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.

a. 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).

b. 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.

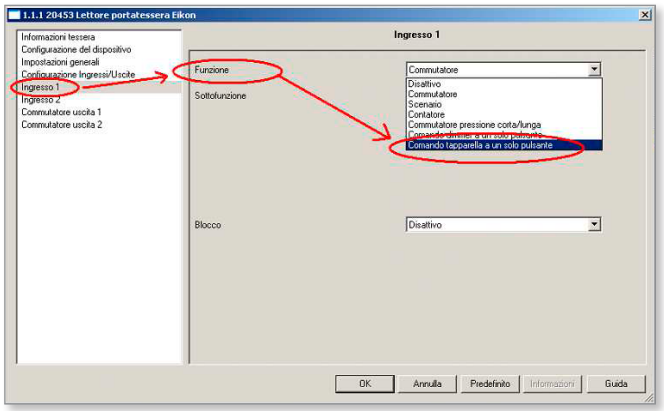
There is noobject in the pocket reader that sends an "*Off*" message when the card is inserted (to enable the input/button) and an "*On*" message when the card is removed (to block the input/button).

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).

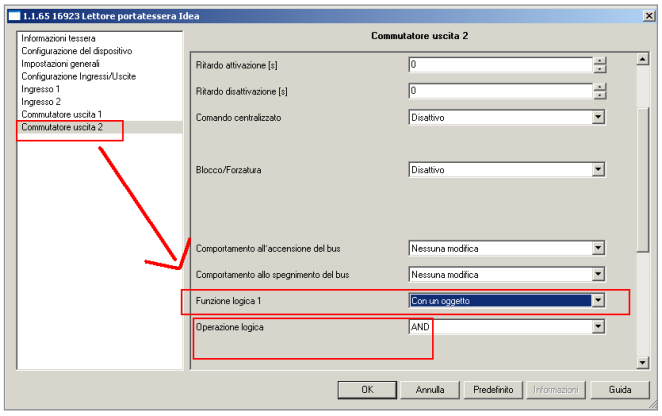
9. Enabling an output using the Logic present in the parameters.

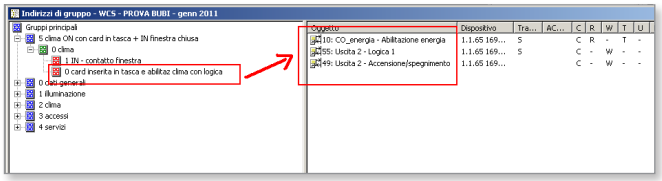
For example, a device output can be activated when one of its inputs is activated only if a valid card is inserted in the pocket. If for example you want to activate OUT-2 of the pocket to turn on heating when the card is inserted but you also want the opening of a window contact connected to IN-1 to 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 20457 and also select AND Logic Operation. In detail:

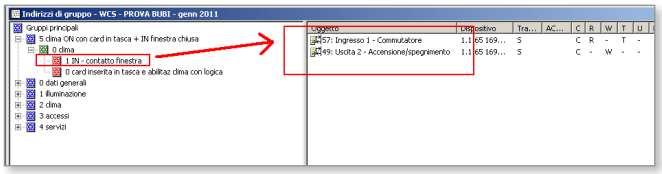
create 1st group which enables output 2 when the card is inserted and activates the logic: activation of the output will be linked in a group to energy enabling by pocket 20453 (by means of object "*CO_Energy – Enable Energy*", with a link to the "*Output 2 – on/off*" object) and the logic on the output 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 20457 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.







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.

FAQs

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).

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.*).

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