

KiwiSafe

X001551

Configuration

Procedure



EN - KiwiSafe - X001551 X0155_PRO001_02_EN



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REVISIONS

Version	Comments	Amended chapters
00	First issue	All
01	General revision of the document. Updated device configuration menus. Added attention parameters for each device.	Anticollision Menu
02	Third issue	General settings, GPIO settings, Advanced settings, GPIO settings (KiwiEye). Product name updated.

Tab.1 - Document revisions

PURPOSE AND SCOPE

USERS	Installer; Operator of the vehicles on which it is installed; Qualified personnel qualified to maintain the device.
PURPOSE	Provide information needed for: ➤ The correct configuration of the device and its accessories; ➤ The correct sensitisation of operators to security issues; ➤ The safe use of the device's accessories.

Tab.2 - Purpose and Scope

LEGEND

<u></u>	Warning/Caution - Important Safety Information
i	General information and suggestions
\bigcirc	PROHIBITION: Operations or actions NOT permitted.

Tab.3 - Legend



SAFETY INSTRUCTIONS AND WARNINGS



The handling of the device must be entrusted to appropriately trained and qualified personnel.



Before setting up the device, carefully read and understand the relevant manual to avoid damaging the product and putting your safety at risk.



The technical information contained in this document is provided for information purposes only and does not constitute a contractual commitment. Kiwitron s.r.l. reserves the right to make any graphic or functional changes to devices and/or software without prior notice.



The KiwiSafe device and its accessories **CANNOT** replace the safety devices of the vehicle on which it is installed.



The KiwiSafe device and its accessories **MUST** be installed in compliance with general safety regulations.



It is forbidden to install the KiwiSafe device and its accessories to inhibit or alter the operation of the safety systems already on the vehicle.



It is forbidden to use the system to operate power contactors, as opening them while current is flowing would cause an electric arc.



WARNING THE OPERATOR of the vehicle before carrying out any remote operation (web cloud or remote connection via PC) to prevent dangerous situations.



The management of blocking (or slowing down) **MUST** respect the safety of the machine and operators. The blocking of a machine **MUST NOT** create potential dangerous situations.



Do not use the device or its accessories in the presence of flammable gases or fumes, near filling stations, fuel depots, chemical plants or during blasting operations. **Avoid any potentially explosive atmosphere.**



Device configuration

Connect KiwiSafe to the PC using the USB-C cable supplied.

Download the LUC SW from download.kiwi/luc/windows_setup.exe and follow all the steps indicated.

Start LUC SW and click on "Memory Slot" \rightarrow "Load from file".



Fig.1

Select the most recent file from those proposed and click 'Open'.

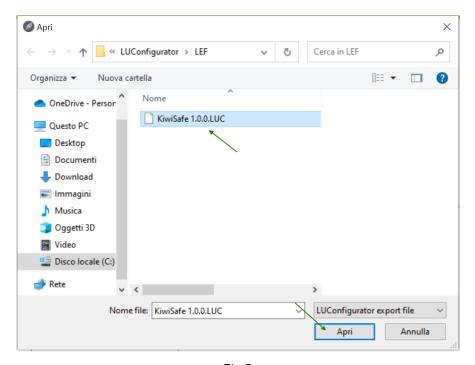


Fig.2





During the first SW installation and for any new releases/updates, you can manually load the configuration file at the following location: Local Disk C: \rightarrow Programs (x86) \rightarrow LUConfigurator \rightarrow LEF

Click on 'Settings' and select 'USB'.

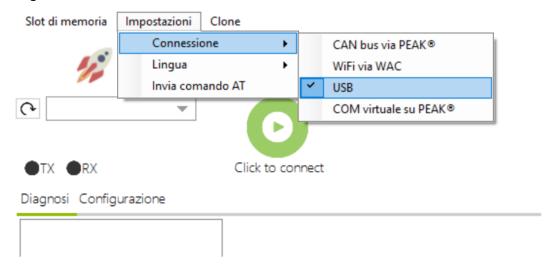


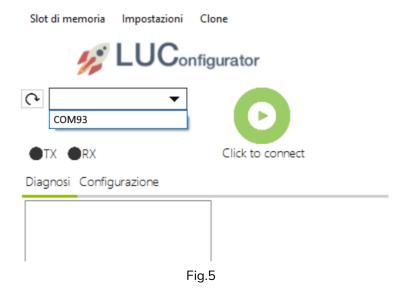
Fig.3

Click the 'Update' button located on the left-hand side of the window:





Click the drop-down menu and select the COM port associated with the device:



Press 'Click to connect':

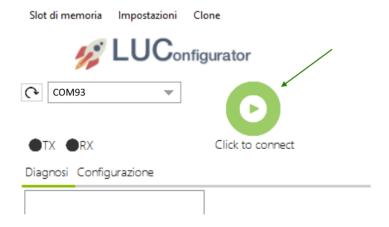


Fig.6



In the top right-hand corner, a box is displayed showing data on KiwiSafe, the serial number and the installed firmware version:



Fig.7

Click on the 'Configuration' tab:

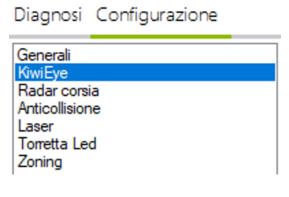
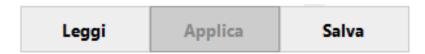


Fig.8

On the left side of the screen are the 'General' menu, the configuration menus for each device that can be integrated into the system, and the 'Zoning' menu.

For each of these menus, three buttons are visible in the bottom right-hand corner:



- Read: Button for reading and displaying parameters stored in KiwiSafe.
- Apply: n.a.
- Save: Button for saving parameters. Changed parameters have a light green background, changed and saved parameters have a dark green background.



Make sure you have saved the configuration parameters before moving to another menu.



General Menu

In this section you can configure the general parameters of the KiwiSafe device.

~

General Settings

Impostazioni generali

KiwiSafe modalità CAN master

General Menu - General Settings		
Parameter	Description	
KiwiSafe CAN master mode	If flagged, it identifies KiwiSafe as the master device. If not flagged, it identifies KiwiSafe as a display device (there is already a KeyAdvanced or a KeyTouch master).	

Tab.4 - General: General Settings

Visualisation

Visualizzazione		
Utilizzo display LED	Merge dei sensori	•
Priorità kiwieye	5	
Priorità radar	4	
Priorità laser	2	
Priorità anticollisione	3	
Priorità zoning	7	

General Menu - Visualisation		
Parameter	Description	
	Exclusive Mode: The display depends on the priority assigned to the sensor: KiwiSafe displays the LEDs and flashes of the detection sensor that has the highest priority at that time. For the same detection zone, KiwiSafe displays the LEDs and flashes of the sensor with the highest colour priority. For the same detection zone and colour, KiwiSafe displays LEDs and sensor	
LED display use	flashes with a higher accessory priority.	
	Sensor Merge: The visualisation is a combination of the information received from the connected sensors: KiwiSafe simultaneously displays the LEDs of all sensors associated with the system that have the highest priority at that time. For the same radius, KiwiSafe displays the LEDs and flashes of the sensor with the highest colour priority. For the same beam and colour, KiwiSafe displays LEDs and sensor flashes with a higher accessory priority.	



General Menu - Visualisation		
Parameter	Description	
Device Priority	A number from 1 to 255 is given for each system-integrated sensor. The higher this value, the more important the sensor is considered by KiwiSafe.	
	Do not use the same priority level for several sensors to avoid abnormal signals.	
Zoning Priority	A number from 1 to 255 is given for the zoning functionality detected by the system-integrated sensors. The higher this value, the more important the zoning functionality is considered by KiwiSafe.	
	Do not use the same priority level for several functionalities to avoid abnormal signalling.	

Tab.5 - General: Visualisation

Central button

The central KiwiSafe button can be programmed to temporarily disable one or more relays. Bypass takes place if the button is held down, for the maximum time indicated in 'Bypass timeout'.

Pulsante centrale		
Funzione	Bypass	•
Relè bypassati	RL1 + RL2	•
Timeout del bypass	10	S
Segnalazione durante bypass	Blu lampeggiante	•
Segnalazione durante bypass (su torretta)	NONE	•
Isteresi su uscita bypass	2	S

General Menu - Central button		
Parameter	Description	
Function	Bypass : Pressing and holding the central KiwiSafe button activates the bypassing of one or more relays according to the programming of the 'Bypassed relays' parameter.	
	Disabled : The central button is disabled, it performs no function even if it is pressed.	



General Menu - Central button		
Parameter	Description	
Bypassed relays	No bypass: No relays are bypassed, activations are performed according to programming in any case. RL "x": Bypasses relay "x" RL "x" + RL "y": Bypasses relay "x" and relay "y" RL "x" + RL "y" + RL "z": Bypasses relay "x", relay "y" and relay "z" If the parameter 'Allow bypass in case of error' is flashed, the status dictated by	
	'Relay activation in case of error' is bypassed.	
Bypass Timeout	If "Function" parameter is set to Bypass, this value indicates the maximum duration, in seconds, of the bypass action. The bypass action ends: • because the time set with 'Bypass Timeout' has elapsed • because the central button was released • because no more obstacles are detected (see parameter 'Hysteresis on bypass output')	
Signalling during bypass	Allows you to choose the visual representation of the bypass action in progress by means of colour combination and/or flashing of the KiwiSafe LEDs. If the bypass is applied during an error message, no representation is displayed.	
Signalling during bypass (on light column)	Allows you to choose the visual representation of the bypass action in progress via light column, via colour combination and/or flashing of the light column LEDs or with an acoustic signal (light column buzzer).	
Hysteresis on bypass output	This is the time interval (in seconds) from when the obstacle detection condition ceases until the relays return to normal operating conditions.	

Tab.6 - General: Central button



GPIO Settings

Impostazioni GPIO		
GPIO utilizzati	KeyDN	•
Gestione contatti uscite	RL1 N.A RL2 N.A RL3 N.A.	•
Abilita controllo uscite da Key		

General Menu - GPIO Settings		
Parameter	Description	
Used GPIO	KiwiSafe: KiwiSafe inputs and relays are used KeyDN: KeyDN inputs and relays are used	
Output contact management	Handles contacts on KiwiSafe or KeyDN relays (depending on how the "Used GPIO" parameter is set) in N.O./N.C. output. It is possible to set one of the available relay operation combinations.	
Enable output control from Key	If this function is activated, the KeyAdvanced/KeyTouch can also manage Kiwisafe relays in parallel mode, i.e: RL1 KiwiSafe simultaneously with RL1 KeyDN and RL2 KiwiSafe simultaneously with RL2 KeyDN.	

Tab.7 - General: GPIO Settings



Advanced Settings

Impostazioni avanzate		
CAN-BUS bitrate	500kb/s	•
Nodo CANopen Key	3	
Tempo disattivazione relè (solo su Kiwi Safe)	2000	ms
Attivazione relè in caso di ERRORE	Nessuna azione	•
Consenti Bypass in caso di ERRORE	\square	
Attivazione relè durante lo startup	Nessuna azione	•

General Menu - Advanced Settings			
Parameter	Description		
CAN-BUS bitrate	Sets the CANBUS bitrate.		
CAN Open Key Node	Sets the KeyDN CAN Node.		
Relay deactivation time (only on KiwiSafe)	Is the time required (in ms) for KiwiSafe relays to change state.		
Relay activation in the event of an error	Sets an action if any kind of malfunction is detected in the system. Possible values: No action Activate relay 1 Activate relay 2 Activate both relays "Activate" should be understood as "change of state from rest position"		
Allow Bypass in case of error	Flagged: if a relay is triggered by an error then it can be deactivated via the bypass button. Unflagged: if a relay is triggered by an error when the central button is pressed, no bypass takes place.		
Relay activation during start-up	Each time the KiwiSafe machine is switched on, it takes an interval of time to become operational. If a KiwiEye is integrated into the system, this interval can be as long as 30 seconds. Using this parameter, it is possible to configure whether or not the relays are activated during the start-up phase.		

Tab.8 - General: Advanced settings



KiwiEye Menu

In this section, KiwiEye parameters can be configured.

GPIO Settings

Impostazione GPIO		
Modalità visualizzazione LED pedoni	Lampeggio lento	•
Modalità visualizzazione LED carrelli	Lampeggio veloce	•
Attivazione RL1	OFF	•
Attivazione RL2	OFF	•
Attivazione RL3 (solo per KeyDN)	OFF	•
Attivazione Buzzer (kiwisafe)	OFF	•
Attivazione Buzzer (torretta)	OFF	•
Attivazione luce rossa (torretta)	OFF	•
Attivazione luce gialla (torretta)	OFF	•
Attivazione luce verde (torretta)	OFF	•
Consenti Bypass		

KiwiEye Menu - GPIO Settings

Parameter		Description		
	Set the sensor display mode to KiwiSafe:			
		Possible values		
	Steady (no flashing)	The LEDs light up steadily (no flashing); the colours green, yellow and red are used.		
	Fast flashing	The LEDs light up with fast flashing; the colours green, yellow and red are used.		
LED pedestrian/forklift	Slow flashing	The LEDs light up with slow flashing; green, yellow and red are used.		
	Fast flashing (green excluded)	The LEDs light up with fast flashing; yellow and red are used.		
display mode	Slow flashing (green excluded)	The LEDs light up with slow flashing; yellow and red are used.		
	Fast flashing (yellow excluded)	The LEDs light up with fast flashing; green and red are used.		
	Slow flashing (yellow excluded)	The LEDs light up with slow flashing; green and red are used.		
	Fast flashing red only	The LEDs light up with fast flashing; only the colour red is used.		
	Slow flashing red only	The LEDs light up with fast flashing; only the colour red		



KiwiEye Menu - GPIO Settings

Parameter	Description	
	is used.	

Identifies the event that activates relay "x".



Relay 3 is activated with KeyDN connected and enabled

	Possible values
OFF	Disabled
Pedestrian in danger zone	Pedestrian in danger zone
Forklift in danger zone	Forklift in danger zone
Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone
Pedestrian in warning zone	Pedestrian in warning zone
Forklift in warning zone	Forklift in warning zone
Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone
Pedestrian in danger or warning zone	Pedestrian in danger or warning zone (forklift not included)
Forklift in danger or warning zone	Forklift in danger or warning zone (pedestrian not included)
Any warning or danger	Any warning or danger in any zone

Identifies the event that triggers the KiwiSafe buzzer and the event that triggers the Light column buzzer.

Buzzer Activation (KiwiSafe) - Buzzer Activation (Light column)

RL"x" activation

Possible values		
OFF	Disabled	
Pedestrian in danger zone	Pedestrian in danger zone	
Forklift in danger zone	Forklift in danger zone	
Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone	
Pedestrian in warning zone	Pedestrian in warning zone	
Forklift in warning zone	Forklift in warning zone	



	KiwiEye Menu - GPI	O Settings
Parameter		Description
	Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone
	Pedestrian in danger or warning zone	Pedestrian in danger zone o attenzione
	Forklift in danger or warning zone	Forklift in danger or warning zone
	Any warning or danger	Any warning or danger in any zone
	Configure buzzer or light activation o	epending on the condition you are in.:
		Possible values
	OFF	Disabled
	Pedestrian in danger zone	Pedestrian in danger zone
	Forklift in danger zone	Forklift in danger zone
	Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone
Red - yellow - green	Pedestrian in warning zone	Pedestrian in warning zone
ight activation (Light olumn)	Forklift in warning zone	Forklift in warning zone
·	Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone
	Pedestrian in danger or warning zone	Pedestrian in danger zone o attenzione
	Forklift in danger or warning zone	Forklift in danger or warning zone
	A	Any warning or danger in any zone
	Any warning or danger	

Tab.9 - KiwiEye: GPIO Settings



Lane mode settings

Impostazioni modalità con	sia	
Modalità	Corsia	•
Danger detection area y dim	1	m
Danger detection area x dim	1	m
Warning detection area y dim	3	m
Warning detection area x dim	1	m

KiwiEye Menu - Lane mode settings

Parameter Description

Normal: Detection of pedestrians, forklifts and signs takes place within the camera's field of view. In this mode, the "danger/warning detection area" parameters are not considered (see below).

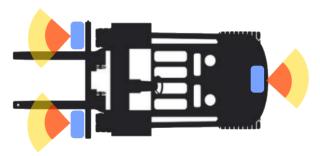


Fig.9 - Detection area - Normal mode

Lane: Detection of pedestrians, forklifts and signs takes place within a user-configurable detection area for both the warning and danger zone. The following parameters are then taken into account.

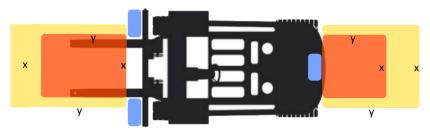


Fig.10 -Detection area - Lane mode

Danger detection area x/y dim

Warning detection area x/y dim

Area of the lane within which the detection of pedestrians, forklifts and Aruco takes place.

The x side indicates the width of the area while the y side indicates the depth.

Tab.10 - KiwiEye: Lane mode

Mode



Camera "x" configuration

In this section you can configure the specific KiwiEye parameters for each camera integrated in the system.

Configurazione Telecamera 1

Nodo CAN Open 127

Orientamento Orizzontale (normale)

Posizione/Enable Disabilitata

Angolo Dritta

Maschera di Attivazione Sempre attiva

KiwiEye Menu - Camera "x" configuration

Parameter Description

Uniquely identifies the KiwiEye camera node to be integrated into the system. The node number can be found on the camera's identification label. The (decimal) values available are 1 to 255.

CAN Open Node



Two or more chambers with the same node number cannot coexist.

Identifies the orientation of the camera installation.

Possible values

Horizontal (normal)

Orientation



Horizontal (overturned)





KiwiEye Menu - Camera "x" configuration

Parameter Description

Vertical (left side down)



Vertical (right side down)



_					
Ρი	siti	on	ı/Fı	nal	ole

Disabled: The camera is not enabled.

Front: The camera is installed at the front of the vehicle.

Rear: The camera is installed at the rear of the vehicle.

Identifies the installation of the camera with respect to the centre axis and direction of travel of the vehicle. Is used to correctly display bright LEDs on KiwiSafe.

_		
Co	rn	er

Possible values		
Straight	Aligned to the centre axis and direction of travel of the vehicle.	
30° right/left	Installed at approximately 30° to the centre axis and the direction of travel of the vehicle.	
45° right/left	Installed at approximately 45° to the centre axis and the direction of travel of the vehicle.	

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	KiwiEye Me	enu - Camera "x" configuration	
Parameter	Description		
	Left/Right side	Installed at approximately 90° to the centre axis and direction of travel of the vehicle.	
	Parameter relatin	ng to alerts sent by the camera.	
		Possible values	
	Disabled	The camera is powered but the signals it transmits to KiwiSafe are ignored	
	Always on	Always send all warnings to KiwiSafe	
	IP1	If a 'positive' is sent to input IP1 (example: IP1 is used to identify 'forward gear' of the vehicle)	
	IP2	If a 'positive' is sent to input IP2 (example: IP2 is used to identify 'reverse gear' of the vehicle)	
	IN1	If a 'negative' is sent to the IN1 input (example: IN1 is used to identify 'forward gear' of the vehicle)	
Activation mask	IN2	If a 'negative' is sent to the IN2 input (example: IP1 is used to identify 'reverse gear' of the vehicle)	
	NO_IP1	No signal on IP1.	
	NO_IP2	No signal on IP2.	
	NO_IN1	No signal on IN1.	
	NO_IN2	No signal on IN2.	
	You want to activ The settings mus	wieyes, one at the front and one at the rear. Tate the rear when engaging reverse gear (input IP1) It be: Therea: NO_IP1	

Tab.11 - KiwiEye: Camera "x"



If the system consists of more than one KiwiEye camera, the 'Camera Configuration' section must be configured in the same way as described for camera 'x' for all installed cameras.



Zone settings

In this section you can configure the warning (yellow zone) and alarm (red zone) zones for KiwiEye obstacle detection (pedestrian or forklift), values are in metres.

Impostazione zone		
Zona allarme pedone frontale	1	m
Zona preallarme pedone frontale	2	m
Zona allarme carrello frontale	4	m
Zona preallarme carrello frontale	8	m
Zona allarme pedone posteriore	4	m
Zona preallarme pedone posteriore	8	m
Zona allarme carrello posteriore	4	m
Zona preallarme carrello posteriore	8	m

KiwiEye Menu - Zone settings		
Parameter	Description	
Frontal pedestrian danger zone	Indicates the distance below which the front camera, after identifying that the obstacle is a pedestrian, activates the danger zone (red).	
Frontal pedestrian warning zone	Indicates the distance below which the front camera, after identifying that the obstacle is a pedestrian, activates the warning zone (yellow).	
Frontal forklift danger zone	Indicates the distance below which the front camera, after identifying that the obstacle is a forklift, activates the danger zone (red).	
Frontal forklift warning zone	Indicates the distance below which the front camera, after identifying that the obstacle is a forklift, activates the warning zone (yellow).	
Rear pedestrian danger zone	Indicates the distance below which the rear camera, after identifying that the obstacle is a pedestrian, activates the danger zone (red).	
Rear pedestrian warning zone	Indicates the distance below which the rear camera, after identifying that the obstacle is a pedestrian, activates the warning zone (yellow).	
Rear forklift danger zone	Indicates the distance below which the rear camera, after identifying that the obstacle is a forklift, activates the danger zone (red).	
Rear forklift warning zone	Indicates the distance below which the rear camera, after identifying that the obstacle is a forklift, activates the warning zone (yellow).	
	Tel. 10 - Marie a Teneral Manager	

Tab.12 - KiwiEye: Zone settings

Advanced settings

In this section you can configure the detection thresholds for KiwiEye obstacle detection (pedestrian or forklift).

Impostazioni avanza	te		
Soglia detection pedone	55	%	
Soglia detection carrello	55	%	
Detection type	Rilevazione aggressiva (consigliata)	•	
Attivazione Box size filter			
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KiwiEye Menu - Advanced settings		
Parameter	Description	
Pedestrian detection threshold	Indicates the threshold on the probability that the camera has identified an obstacle as a pedestrian. Above this threshold it is activated to calculate the distance to the vehicle. The default value is 55. Recommended values: $40 \div 70$.	
Forklift detection threshold	Indicates the threshold on the probability that the camera has identified an obstacle as a forklift. Above this threshold it is activated to calculate the distance to the vehicle.	
Detection type	Indicates the detection mode implemented by KiwiEye. Aggressive detection (recommended for outdoor working environments): the camera detects obstacles up to approx. 25 m from its position. Light detection (recommended for indoor working environments): the camera detects obstacles up to approx. 10 m from its position.	
Box size filter activation	The box size filter parameter checks whether a detected obstacle has dimensions compatible with the assigned category. (Category sizes will be user-configurable). Activating this parameter decreases the probability of detecting false positives at the expense of losing partial obstacle detections. The detected obstacle must be visible in full and not partially as it must be compatible with the physical dimensions with which the camera identifies these objects.	

Tab.13 - KiwiEye: Advanced settings



Services activation

Attivazione servizi	
Abilita detection dei Carrelli	\checkmark
Abilita stream video RTSP	
Abilita rilevazione occlusione modulo depth	ı 🗌
Abilita rilevazione occlusione modulo RGB	
Abilita detection codici Aruco	\checkmark

KiwiEye Menu - Services activation		
Parameter	Description	
Enable forklift detection	Enables the camera's neural network to recognise forklifts. If this value is not ticked, forklifts are not recognised by the camera.	
Enable RTSP stream video	If a viewing device (Tablet / PC) is integrated into the system, it is possible to stream the images detected by the camera. If there is no system screen, it is advisable to keep this parameter deactivated to the detriment of camera performance.	
Enable depth module occlusion detection	If flagged, it activates an internal camera process that can detect occlusions on depth modules, to the detriment of camera performance.	
Enable RGB module occlusion detection	If flagged, it activates an internal camera process that can detect occlusions on RGB modules, to the detriment of camera performance.	
Enable Aruco codes detection	Enables the camera's neural network to recognise signs with Aruco codes. If this value is not ticked, the signs are not recognised by the camera.	

Tab.14 - KiwiEye: Services activation



Aruco Code settings

Impostazioni codici Aruco		
Aruco detection area x dim	2	m
Aruco detection area y dim	2	m
Isteresi per codici Aruco	4	x 100ms
Attiva segnalazione detection codice Aruco		

KiwiEye Menu - Aruco Code settings		
Parameter	Description	
Aruco detection area x dim Aruco detection area y dim	Area within which Aruco signs are surveyed. Up to 4 zones can be defined. The x side indicates the width of the area while the y side inidcates the depth. x x y Fig.11 - Aruco detection area	
Hysteresis for Aruco codes	This is the time interval in which the camera must continuously detect the code. If the camera detects the Aruco code for more than this interval then it interprets the sign as detected.	
Aruco code detection activation	If flagged when the Aruco code is framed, and for the entire detection time within the detection area, KiwiSafe displays a blue LED circle or semicircle around the central button. If it is not flagged when the bow code is framed, and for the entire detection time within the detection area, KiwiSafe does not display any LEDs.	

Tab.15 - KiwiEye: Aruco Code settings



Code "x"

In this section, the Aruco code 'x' is configured.

Up to 6 codes with their ID, associated action and priority can be defined.

Codice 1		
ID	0	
Modalità funzionamento	Permanente	•
Tempo di funzionamento (se temporizzato)	10	S
Azione	Disabilita tutte le zone	•
Priorità	1	

KiwiEye Menu - Code "x"		
Parameter Description		
ID	Numeric value from 1 to 6, associates ID with code, user definable.	
Modes of operation	Identifies the time interval in which the action associated with the sign is valid. Permanent: The action is always active, it is only deactivated by the detection of a permanent sign that disables it. Instantaneous: The action associated with the sign is valid as long as the sign is inside the camera frame. Timed: considers the action associated with the sign valid for the time indicated in 'Operating time'.	
Operating time (if timed)	Time interval (in seconds) for which the action on the sign remains valid.	



KiwiEye Menu - Code "x" **Parameter** Description Defines for the detection of Code 'x' which zone you should add or exclude. The outputs follow the configuration of the 'RLx activation' parameter. Example: There is an 'x' Aruco code at the entrance of each 'x' zone shown below. If you detect: Code 1: 'Add zone 1' Code 2: 'Add zone 2' (Zone 2 is included in zone 1) Code 3: 'Exclude zone 2 and add zone 3' (Zone 3 is included in zone 1 but not Code 4: 'Add zone 4' (Zone 4 takes all zone 1, 3 and 4 rules into account) Action Fig.12 - Aruco Code Zones Numeric value from 1 to 255, user-definable, associates a priority to the code, Priority the higher this value, the more priority the code is considered.

Tab.16 - KiwiEye: Code "x"



Radar Menu

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Front/Rear radar configuration

Configurazione Radar Anteriore				
Enable				
Nodo CAN Open	27			
Posizionamento	Normale	•		
Attivazione	Disabilitata	•		
Distanza zona warning	1	m		
Distanza zona Allarme	0,48	m		
Configurazione Radar Posteriore				
Enable				
Nodo CAN Open	27			
Posizionamento	Normale	•		
Attivazione	Disabilitata	•		
Distanza zona warning	8	m		
Distanza zona Allarme	4	m		

	Radar	Menu - Front/Rear radar configuration
Parameter		Description
Enable	If flashed, this p	parameter enables radar, otherwise it excludes it.
CAN Open Node	Sets the CAN n	ode of the sensor.
Positioning	Normal: Radar is installed normally Inverted: Radar is installed with the underside facing upwards.	
	Parameter relat	ing to radar warning.
		Possible values
	Disabled	Radar is powered but the signals it transmits to KiwiSafe are ignored
Activation	Always on	Always send all warnings to KiwiSafe
	IP1	If a 'positive' is sent to input IP1 (example: IP1 is used to identify 'forward gear' of the vehicle)
	IP2	If a 'positive' is sent to input IP2 (example: IP2 is used to identify 'reverse gear' of the vehicle)
	IN1	If a 'negative' is sent to the IN1 input

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Radar Menu - Front/Rear radar configuration		
Parameter		Description
		(example: IN1 is used to identify 'forward gear' of the vehicle)
	IN2	If a 'negative' is sent to the IN2 input (example: IP1 is used to identify 'reverse gear' of the vehicle)
	NO_IP1	If no 'positive' is sent to input IP1
	NO_IP2	If no 'positive' is sent to input IP2
	NO_IN1	If no 'negative' is sent to the IN1 input
	NO_IN2	If no 'negative' is sent to the IN2 input
Warning zone distance	Value expressed in metres: this is the distance between the obstacle and the forklift below which the early warning zone is identified.	
Danger zone distance	Value expressed in metres: this is the distance between the obstacle and the forklift below which the alarm zone is identified.	

Tab.17 - Radar: Configuration



GPIO Settings

Impostazioni GPIO	
Modalità visualizzazione LED	Lampeggio veloce ▼
Attivazione RL1	nessuna attivazione 🔻
Attivazione RL2	nessuna attivazione 🔻
Attivazione RL3 (solo per KeyDN)	nessuna attivazione 🔻
Attivazione buzzer (kiwisafe)	nessuna attivazione 🔻
Attivazione buzzer (torretta)	nessuna attivazione 🔻
Attivazione luce rossa (torretta)	nessuna attivazione 🔻
Attivazione luce gialla (torretta)	nessuna attivazione 🔻
Attivazione luce verde (torretta)	nessuna attivazione 🔻
Consenti Bypass	

	Radar M	1enu - GPIO Settings
Parameter		Description
	Set the sensor display mod	e to KiwiSafe:
		Possible values
	Steady (no flashing)	The LEDs light up steadily (no flashing); the colours green, yellow and red are used.
	Fast flashing	The LEDs light up with fast flashing; the colours green, yellow and red are used.
	Slow flashing	The LEDs light up with slow flashing; green, yellow and red are used.
LED pedestrian/forklift display mode	Fast flashing (green excluded)	The LEDs light up with fast flashing; yellow and red are used.
	Slow flashing (green excluded)	The LEDs light up with slow flashing; yellow and red are used.
	Fast flashing (yellow excluded)	The LEDs light up with fast flashing; green and red are used.
	Slow flashing (yellow excluded)	The LEDs light up with slow flashing; green and red are used.
	Fast flashing red only	The LEDs light up with fast flashing; only the colour red is used.
	Slow flashing red only	The LEDs light up with fast flashing; only the



Radar Menu - GPIO Settings		
Parameter	Description	
	colour red is used.	
RL"x" activation	Configure activation of RL'x' depending on the condition you are in. Each individual relay can be associated with activation on: no activation front radar in warning zone front radar in danger zone front radar in warning or danger zone rear radar in warning zone rear radar in danger zone rear radar in warning or danger zone any warning zone any warning zone any danger zone	

Identifies the event that triggers the KiwiSafe buzzer and the event that triggers the light column buzzer.

Possible values		
OFF	Disabled	
Pedestrian in danger zone	Pedestrian in danger zone	
Forklift in danger zone	Forklift in danger zone	
Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone	
Pedestrian in warning zone	Pedestrian in warning zone	
Forklift in warning zone	Forklift in warning zone	
Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone	
Pedestrian in danger or warning zone	Pedestrian in danger zone o attenzione	
Forklift in danger or warning zone	Forklift in danger or warning zone	
Any warning or danger	Any warning or danger in any zone	

Buzzer Activation (KiwiSafe) - Buzzer Activation (Light column)



Radar Menu - GPIO Settings		
Parameter	Description	
Red - yellow - green light activation (Light column)	Configure buzzer or light activation depending on the condition you are in. Each individual parameter can be associated with activation on: no activation front radar in warning zone front radar in danger zone front radar in warning or danger zone rear radar in warning zone rear radar in danger zone rear radar in warning or danger zone any warning zone any warning zone any danger zone no alert (only for green light)	
Allow bypass	Flagged: enables the bypass function if relay activation is generated by the sensor. Unflagged: the bypass function cannot be used in the event of relay activation.	

Tab.18 - Radar: GPIO Settings



Anticollision Menu

In this section, the parameters of the anti-collision device can be configured.

Anticollision Settings

Impostazioni Anticollisione		
Modalità CAN OPEN	\square	
Abilita standby mode		
Maschera attivazione standby	NO_IP1	•

	Anticol	lision Menu - Anticollision Settings
Parameter		Description
CAN Open Mode	Enable CAN O	pen Mode
Enable standby mode		enables the 'Standby' mode of the anti-collision device. ned, the anti-collision device is always active.
		dby mode' is flashed. ating to warnings sent by the anti-collision device:
		Possible values
	Disabled	The device is powered but the signals it transmits to KiwiSafe are ignored
	Always on	Always send all warnings to KiwiSafe
	IP1	If a 'positive' is sent to input IP1 (e.g. IP1 is used to identify 'forward gear' of the forklift)
Standby activation mask	IP2	If a 'positive' is sent to input IP2 (e.g.: IP2 is used to identify 'reverse gear' of the medium)
·	IN1	If a 'negative' is sent to the IN1 input (e.g. IN1 is used to identify 'forward gear' of the forklift)
	IN2	If a 'negative' is sent to the IN2 input (e.g.: IP1 is used to identify 'reverse gear' of the forklift)
	NO_IP1	If no 'positive' is sent to IP1 input
	NO_IP2	If no 'positive' is sent to IP2 input
	NO_IN1	If a 'negative' is not sent to the IN1 input
	NO_IN2	If a 'negative' is not sent to the IN2 input

Tab.19 - Anticollision: Anticollision Settings



Anchor "x"

Ancora 2

Posizione/Enable Posteriore ▼

Nodo CAN Open 34

Anticollision Menu - Anchor "x"		
Parameter	Description	
Position/Enable	Indicates the installation position of the device. In the case of Anchor 1:	
CAN Open Node	Indicates the CAN node of the device	

Tab.20 - Anticollision: Anchor "x"



GPIO Settings

Impostazione GPIO		
Modalità visualizzazione LED pedone	Lampeggio veloce	•
Modalità visualizzazione LED carrello	Lampeggio veloce	•
Modalità visualizzazione LED kiwicross	Lampeggio veloce	•
Attivazione RL1	Pedone, carrello o SafeCross in Danger zone	•
Attivazione RL2	Pedone, carrello o SafeCross in Warning zone	•
Attivazione RL3 (solo per KeyDN)	Nessuna azione	•
Attivazione buzzer kiwisafe	Pedone, carrello o SafeCross in Danger zone	•
Attivazione buzzer (torretta)	Nessuna azione	•
Attivazione luce rossa (torretta)	Nessuna azione	•
Attivazione luce gialla (torretta)	Nessuna azione	•
Attivazione luce verde(torretta)	Nessuna attivazione	•
Consenti Bypass		

Anticollision Menu- GPIO Settings		
Parameter	Description	
LED pedestrian/forklift /KiwiCross display mode	Set the sensor display mode	e to KiwiSafe:
	Possible values	
	Steady (no flashing)	The LEDs light up steadily (no flashing); the colours green, yellow and red are used.
	Fast flashing	The LEDs light up with fast flashing; the colours green, yellow and red are used.
	Slow flashing	The LEDs light up with slow flashing; green, yellow and red are used.
	Fast flashing (green excluded)	The LEDs light up with fast flashing; yellow and red are used.
	Slow flashing (green excluded)	The LEDs light up with slow flashing; yellow and red are used.
	Fast flashing (yellow excluded)	The LEDs light up with fast flashing; green and red are used.
	Slow flashing (yellow excluded)	The LEDs light up with slow flashing; green and red are used.
	Fast flashing red only	The LEDs light up with fast flashing; only the colour red is used.
	Slow flashing red only	The LEDs light up with fast flashing; only the colour red is used.



Anticollision Menu- GPIO Settings

Parameter	Description		
RL"x" Activation	Configure RL'x' activation depending on the condition you are in. To each individual relay you can associate activation on all possible combinations of forklifts and/or pedestrian and warning and/or danger zone: one activation opedestrian in warning zone opedestrian in warning zone KiwiCross UWB in danger zone opedestrian in warning zone		
	 forklifts in warning zone KiwiCross UWB in warning zone pedestrian or forklifts in warning zone pedestrian or forklifts in danger zone pedestrian or forklifts or KiwiCross in warning zone pedestrian in danger or warning zone forklifts in danger or warning zone KiwiCross UWB in danger or warning zone pedestrian or forklifts or KiwiCross in danger zone pedestrian or forklifts in danger or warning zone pedestrian or forklifts or KiwiCross in danger or warning zone pedestrian in danger zone or forklifts in warning zone pedestrian in warning zone or forklifts in danger zone 		



Buzzer Activation (KiwiSafe) - Buzzer Activation (Light column) Identifies the event that triggers the KiwiSafe buzzer and the event that triggers the Light column buzzer.



	Possible values
Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone
Pedestrian in warning zone	Pedestrian in warning zone
Forklift in warning zone	Forklift in warning zone
Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone
Pedestrian in danger or warning zone	Pedestrian in danger zone o attenzione
Forklift in danger or warning zone	Forklift in danger or warning zone
Any warning or danger	Any warning or danger in any zone
	Valori possibili:
OFF	Disabled
Pedestrian in danger zone	Pedestrian in danger zone
Forklift in danger zone	Forklift in danger zone
Kiwi Cross UWB in Danger	KiwiCross UWB in danger zone
Pedestrian in Warning	Pedestrian in warning zone
Forklift in Warning	Forklift in warning zone
Kiwi Cross UWB in Warning	KiwiCross UWB in warning zone
Pedestrian or forklift in Danger	Pedestrian or forklift in danger zone
Pedestrian or forklift in Warning	Pedestrian or forklift in warning zone
	Pedestrian or forklift in danger zone or KiwiCross in warning zone
Pedestrian in Danger o warning	Pedestrian in danger zone or warning zone
Forklift in Danger o warning	Forklift in danger or warning zone
Kiwi Cross UWB in Danger o warning	KiwiCross UWB in danger o warning zone



	Anticollision Menu- GPIO Settings
Parameter	Description
	Pedestrian or forklift or Pedestrian or forklift or Kiwi Cross UWB in Kiwi Cross UWB in danger zone Danger
	Pedestrian or forklift in Pedestrian or forklift in danger or warning zone Danger o Warning
	Pedestrian or forklift or Pedestrian or forklift or Kiwi Cross UWB in Kiwi Cross UWB in Danger o Warning zone Danger o Warning
	Pedestrian in Danger Zone Pedestrian in Danger Zone or forklift in Warning zone
	Pedestrian in Warning Pedestrian in Warning Zone or forklift in Danger Zone or forklift in Danger zone
Red - yellow - green light activation (Light column)	Configure buzzer or light activation depending on the condition you are in. Each individual relay can be associated with activation on all possible combinations of forklifts and/or pedestrian and warning and/or danger zone: • no activation • pedestrian in warning zone • forklifts in warning zone • pedestrian in danger zone • forklifts in danger zone • pedestrian or forklifts in warning zone • pedestrian or forklifts in danger zone • pedestrian in danger or warning zone • forklifts in danger or warning zone • pedestrian or forklifts in warning or danger zone • pedestrian in danger zone or forklifts in warning zone • pedestrian in warning zone or forklifts in danger zone • pedestrian in warning zone or forklifts in danger zone • No danger (green light only) • Registered driver (green light only)
Allow bypass	Flagged: enables the bypass function if relay activation is generated by the sensor. Unflagged: the bypass function cannot be used in the event of relay activation.

Tab.21 - Anticollision: GPIO Settings



Setting distances

Impostazione distanze	•	
Zona allarme pedone	2	m
Zona preallarme pedone	4	m
Zona allarme carrello	2	m
Zona preallarme carrello	4	m
Zona registrazione driver	1	m
Zona preallarme kiwicross	2	m
Zona allarme kiwicross	4	m

	Anticollision Menu - Setting distances
Parameter	Description
Danger zone pedestrian	It indicates the distance, in metres, below which the anchor, after identifying that the obstacle is a pedestrian, activates Danger zone (red).
Warning zone pedestrian	It indicates the distance, in metres, below which the anchor, after identifying that the obstacle is a pedestrian, activates Warning zone (yelow).
Danger zone forklift	It indicates the distance, in metres, below which the anchor, after identifying that the obstacle is a forklift, activates Danger zone (red).
Warning zone forklift	It indicates the distance, in metres, below which the anchor, after identifying that the obstacle is a forklift, activates warning zone (yellow).
Danger zone Kiwicross	It indicates the distance, in metres, below which the anchor, after identifying that the obstacle is a KiwiCross, activates Danger zone (red).
Warning zone Kiwicross	It indicates the distance, in metres, below which the anchor, after identifying that the obstacle is a KiwiCross, activates warning zone (yellow).
Driver registration	It indicates the distance, in metres, below which the anchor, after identifying an Anticollision TAG, activates registration zone (blue).

Tab.22 - Anticollision: Setting distances



Laser Menu

In this section, the parameters of the laser device can be configured.

Laser settings

Impostazioni Laser soffitto)	
Enable		
Maschera di attivazione	Disabilitata	•
Ingresso utilizzato dal sensore	IP1	•
Altezza Soffitto	3	m
Isteresi	30	cm
Tempo cambio stato	1	S
Colore assegnato	Rosso	•

		Laser Menu - Laser settings
Parameter		Description
Enable	If flashed, thi	s parameter enables the laser, otherwise it excludes it.
		ndby mode' is flashed. lating to warnings sent by the laser device:
		Possible values
	Disabled	The camera is powered but the signals it transmits to KiwiSafe are ignored
	Always on	Always send all warnings to KiwiSafe
	IP1	If a 'positive' is sent to input IP1 (example: IP1 is used to identify 'forward gear' of the vehicle)
Activation mask	IP2	If a 'positive' is sent to input IP2 (example: IP2 is used to identify 'reverse gear' of the vehicle)
	IN1	If a 'negative' is sent to the IN1 input (example: IN1 is used to identify 'forward gear' of the vehicle)
	IN2	If a 'negative' is sent to the IN2 input (example: IP1 is used to identify 'reverse gear' of the vehicle)
	NO_IP1	No signal on IP1.
	NO_IP2	No signal on IP2.
	NO_IN1	No signal on IN1.



	Laser Menu - Laser settings
Parameter	Description
	NO_IN2 No signal on IN2.
Input used by the sensor	Indicates the input to which the laser is connected
Ceiling height	Expressed in metres: Indicates the height of the interior working environment of the vehicle on which the laser is mounted.
Hysteresis	Expressed in cm: Indicates the tolerance of variations measured by the laser so that it does not change state.
Status change time	Expressed in seconds: Delay time applicable to change of relay state.
Assigned colour	Displays concentric LEDs on KiwiSafe, showing red, yellow or no colour.

Tab.23 - Laser: Laser settings



Sensor settings

Impostazioni sensore		
Minima distanza leggibile	0	m
Massima distanza leggibile	15	m
Tensione minima	2	V
Tensione massima	10	V

	Laser Menu - Sensor settings
Parameter	Description
Minimum readable distance	Expressed in metres: Indicates the minimum distance readable by the laser.
Maximum readable distance	Expressed in metres: Indicates the maximum distance readable by the laser.
Minimum voltage	Expressed in Volts: Indicates the minimum voltage threshold detectable by the laser.
Maximum voltage	Expressed in Volts: Indicates the maximum voltage threshold detectable by the laser.

Tab.24 - Laser: Sensor settings

GPIO Settings

Fissi	•
nessuna attivazione	•
\checkmark	
	nessuna attivazione nessuna attivazione nessuna attivazione

	Laser Menu - G	PIO Settings	
Parameter		Description	
	Set the sensor display mo	de to KiwiSafe:	
LED display mode		Possible values	_
LED display mode	Steady (no flashing)	The LEDs light up steadily (no flashing); the colours green, yellow and red are used.	_
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Parameter		Description
i didilictei		Description
	Fast flashing	The LEDs light up with fast flashing; the colours green, yellow and red are used.
	Slow flashing	The LEDs light up with slow flashing; green, yellow and red are used.
	Fast flashing (green excluded)	The LEDs light up with fast flashing; yellow and red are used.
	Slow flashing (green excluded)	The LEDs light up with slow flashing; yellow and red are used.
	Fast flashing (yellow excluded)	The LEDs light up with fast flashing; green and red are used.
	Slow flashing (yellow excluded)	The LEDs light up with slow flashing; green and red are used.
	Fast flashing red only	The LEDs light up with fast flashing; only the colour red is used.
	Slow flashing red only	The LEDs light up with fast flashing; only the colour red is used.
DI ""		
KL X activation	Configure RL"x" activation or	not.
RL"x" activation	_	ates the KiwiSafe buzzer and the event that
KL X activation	Identifies the event that activa	ates the KiwiSafe buzzer and the event that
KL X activation	Identifies the event that activa	ates the KiwiSafe buzzer and the event that zzer.
KL X activation	Identifies the event that activates the light column buz	etes the KiwiSafe buzzer and the event that ezer. Possible values
KL X activation	Identifies the event that active activates the light column but	Possible values Disabled
Buzzer Activation (KiwiSafe) - Buzzer Activation (Light	Identifies the event that active activates the light column but OFF Pedestrian in danger zone	Possible values Disabled Pedestrian in danger zone
Buzzer Activation (KiwiSafe) - Buzzer Activation (Light	OFF Pedestrian in danger zone Forklift in danger zone Pedestrian or forklift in	Possible values Disabled Pedestrian in danger zone Forklift in danger zone
Buzzer Activation (KiwiSafe) - Buzzer Activation (Light	OFF Pedestrian in danger zone Forklift in danger zone Pedestrian or forklift in danger zone	Possible values Disabled Pedestrian in danger zone Forklift in danger zone Pedestrian or Forklift in danger zone
Buzzer Activation (KiwiSafe) - Buzzer Activation (Light	OFF Pedestrian in danger zone Forklift in danger zone Pedestrian or forklift in danger zone Pedestrian in warning zone	Possible values Disabled Pedestrian in danger zone Forklift in danger zone Pedestrian or Forklift in danger zone Pedestrian in warning zone
Buzzer Activation (KiwiSafe)	OFF Pedestrian in danger zone Forklift in danger zone Pedestrian or forklift in danger zone Pedestrian in warning zone Forklift in warning zone Pedestrian or Forklift in danger zone	Possible values Disabled Pedestrian in danger zone Forklift in danger zone Pedestrian or Forklift in danger zone Pedestrian in warning zone Forklift in warning zone



Parameter	Description	
	warning zone	
	Any warning or danger Any wa	arning or danger in any zone
	The light column lights (green, yellow, red) are individually configurable with the following values:	
	Possible values	
Red - yellow - green light activation (Light column)	OFF	Disabled
	Pedestrian in danger zone	Pedestrian in danger zone
	Forklift in danger zone	Forklift in danger zone
	Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone
	Pedestrian in warning zone	Pedestrian in warning zone
	Forklift in warning zone	Forklift in warning zone
	Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone
	Pedestrian in danger or warning zone	Pedestrian in danger zone o attenzione
	Forklift in danger or warning zone	Forklift in danger or warning zone
	Any warning or danger	Any warning or danger in any zone
	No danger (green light only)	No danger detected
Allow bypass	Flagged: enables the bypass function if relay activation is generated by the sensor. Unflagged: the bypass function cannot be used in the event of relay activation.	

Tab.25 - Laser: GPIO Settings



Light column Menu

In this section, the parameters of the Light column device can be configured.

Light column settings

Impostazioni torretta		
Abilitazione		
Nodo CAN Open	10	
Tempo di refresh	250	ms

Light column Menu - Light column settings		
Parameter	Parameter Description	
Enable	If flashed, this parameter enables the Light column lights, otherwise it excludes it.	
CANOpen Node	Sets the CAN node of the sensor.	
Refresh time	Expressed in ms: This is the time between one refresh of received information. By reducing this parameter, visualisation speed can be improved in systems where lots of sensors are integrated.	
	Tab 26 - Light Column: Light Column settings	



Zoning Menu

In this section, the parameters of the Zoning functionality can be configured.

Impostazioni zoning		
Modalità visualizzazione LED	Lampeggio veloce	-
Colore Zona 1	giallo	•
Colore Zona 2	Rosso	•
Colore Zona 3	nessuno	•
Colore Zona 4	nessuno	•
Attivazione RL1	ZONA 1	•
Attivazione RL2	ZONA 2	•
Attivazione RL3 (solo per KeyDN	•	
Consenti Bypass relè		

Zoning settings

Zoning Menu - Zoning settings		
Description		
Set the zoning display mode to KiwiSafe:		
Possible values		
Steady (no flashing)	LEDs light up steadily (no flashing); the colours green, yellow and red are used.	
Fast flashing	LEDs light up with fast flashing; the colours green, yellow and red are used.	
Slow flashing	LEDs light up with slow flashing; green, yellow and red are used.	
Fast flashing (green excluded)	LEDs light up with fast flashing; yellow and red are used.	
Slow flashing (green excluded)	LEDs light up with slow flashing; yellow and red are used.	
Fast flashing (yellow excluded)	LEDs light up with fast flashing; green and red are used.	
Slow flashing (yellow excluded)	LEDs light up with slow flashing; green and red are used.	
Fast flashing red only	LEDs light up with fast flashing; only the colour red is used.	
Slow flashing red only	The LEDs light up with fast flashing; only the colour red is used.	
	Set the zoning display Steady (no flashing) Fast flashing Slow flashing (green excluded) Slow flashing (green excluded) Fast flashing (yellow excluded) Slow flashing (yellow excluded) Slow flashing red only Slow flashing red	



Zoning Menu - Zoning settings

Parameter	Description		
	Sets the col	our of the LEDs displayed on KiwiSafe while inside Zone 'x':	
	Possible values		
Zone "x" colour	None	LEDs do not take on any colour to indicate that we are within the 'x' zone.	
	Yellow	LEDs turn yellow to signal that we are within the 'x' zone.	
	Red	LEDs turn red to signal that we are within the 'x' zone.	

Identifies the zone activating relay 'x'.



Relay 3 is activated with KeyDN connected and enabled

	Possible values		
	OFF	Disabled	
RL"x" activation	Pedestrian in danger zone	Pedestrian in danger zone	
	Forklift in danger zone	Forklift in danger zone	
	Pedestrian or forklift in danger zone	Pedestrian or Forklift in danger zone	
	Pedestrian in warning zone	Pedestrian in warning zone	
	Forklift in warning zone	Forklift in warning zone	
	Pedestrian or Forklift in warning zone	Pedestrian or Forklift in warning zone	
	Pedestrian in danger or warning zone	Pedestrian in danger or warning zone (forklifts not included)	
	Forklift in danger or warning zone	Forklift in danger or warning zone (pedestrians not included)	
	Any warning or danger	Any warning or danger in any zone	

Tab.27 - Zoning: Zoning settings



Save / Import configuration

Once the device configuration is complete, it is possible via the 'Clone' menu:

- save the device configuration to a local file on a PC
- import a configuration file previously saved on other device

To save the configuration, click "Clone"--> "Save configuration to file".

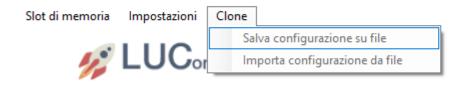


Fig.13 - Clone - Save

You can select the parameters you wish to save:

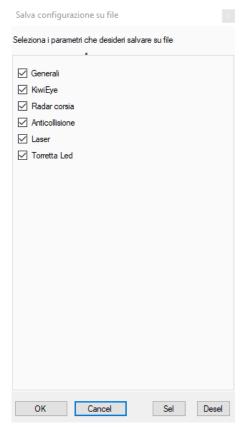


Fig.14 - Clone - Parameter selection to save

This will result in a file with the extension .LEX that can be renamed by the user. The configuration file is saved at the following location:

Local disk C: \rightarrow Programs (x86) \rightarrow LUConfigurator \rightarrow export



To import a previously saved configuration, click 'Clone' \rightarrow 'Import configuration from file'.



Importing a configuration file overwrites and replaces all content saved within

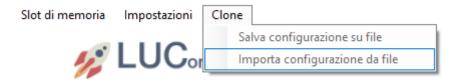


Fig.15 - Clone - Import