



## DATASHEET

RESCUE STANDARD	PROT. N.:
9 FUNCTIONS RESCUE	

### 1. Part Numbers

	SISTEMATICA S.p.A. P/N	CUSTOMER P/N
KIT	XKITSE411XFHX	
HANDHELD	XS391PXSE011X	
POWER SUPPLY (2x)	XBAT020000020	
CONTROLLER	XS182RBSE111X	
WIRING HARNESS	XCBLSE181RHA	
EXTERNAL ANTENNA	XANT000000090 (L=5mt)	
	XANT000000140 (STUB)	

### 2. Handheld



PART NUMBER  
XS391PXSE011X



PART NUMBER  
XBAT020000020

<b>POWER SUPPLY</b>		
Alkaline 3V 2x1,5 AAA	<input checked="" type="checkbox"/>	Supplied as kit
<b>COMMUNICATION INTERFACES</b>		
RF 865.4 - 868.2 MHz	<input checked="" type="checkbox"/>	
<b>FEATURES</b>		
Keyboard backlight	<input checked="" type="checkbox"/>	
Standard sticker	<input checked="" type="checkbox"/>	
Standard keyboard	<input checked="" type="checkbox"/>	
Standard neck strap		
Cradle		
<b>COMPLIANCE MARK</b>		
CE	<input checked="" type="checkbox"/>	
International Protection	IP66	
<b>NOTES</b>		The batteries are not installed in the handheld

### 3. Controller 20


 PART NUMBER  
 XS182RBSE111X

 PART NUMBER  
 XANT000000090

 PART NUMBER  
 XANT000000140

<b>POWER SUPPLY</b>		
12-24 V <sub>dc</sub>	<input checked="" type="checkbox"/>	
<b>COMMUNICATION INTERFACES</b>		
RF 865.4 - 868.2 MHz	<input checked="" type="checkbox"/>	
<b>INPUT-OUTPUT</b>		
Master Output	<input checked="" type="checkbox"/>	
Emergency Output	<input checked="" type="checkbox"/>	
Power output number	9	Max 5 A per output
Digital input number	1	
Whole maximum current available on the outputs (A)	20	Fuse rated current (Ampere)
<b>OPTIONS</b>		
External antenna	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Stub
		<input checked="" type="checkbox"/> Remote, cable length L = 5mt
Start Timeout (T <sub>start</sub> )	2 min.	
<b>COMPLIANCE MARK</b>		
CE	<input checked="" type="checkbox"/>	
E24	<input checked="" type="checkbox"/>	
International Protection	IP67	
<b>NOTE</b>		8 outputs are unused



## DATASHEET

### RESCUE

### 3.1 Connections table

PIN	COLOR	TYPE	NAME	NOTES
A8	WHITE	O	M.O.	Master Output
A7	GRAY/BLACK	O	E.O.	Emergency Output
B7	BLUE	O	EV 1	FLOOR UP
C7	BROWN	O	EV 2	FLOOR DOWN
A6	GRAY	O	EV 3	FLOOR IN
B6	VIOLET	O	EV 4	FLOOR OUT
A5	PINK	O	EV 5	WINCH IN
B5	ORANGE	O	EV 6	WINCH OUT
A4	TRANSPARENT	O	EV 7	WINCH TRANSLATION LEFT
B4	BEIGE	O	EV 8	WINCH TRANSLATION RIGHT
C6	BLACK/WHITE	O	EV 9	UNUSED
C5	BLUE/WHITE	O	EV 10	UNUSED
A2	BROWN/WHITE	O	EV 11	UNUSED
A1	GRAY/WHITE	O	EV 12	UNUSED
A3	RED/WHITE	O	EV 13	UNUSED
B3	VIOLET/WHITE	O	EV 14	UNUSED
C2	PINK/WHITE	O	EV 15	UNUSED
B2	ORANGE/WHITE	O	EV 16	UNUSED
C4	TRANSPARENT/WHITE	O	EV 17	LIGHT
C3	BEIGE/WHITE	I	IN 1	SET OUTPUT M/L
B8	RED	S	+ ALIM	
B1	BLACK	S	- ALIM	

I: Input

O: Output

S: Power supply signal

CAUTION: please carefully isolate the unused wire.

### 4. System and functioning description

#### FUNCTIONS

The system is composed by three functions, each of them with several outputs:

- Floor
  - Up
  - Down
  - In
  - Out
- Winch
  - In
  - Out
  - Translation Left
  - Translation Right
- Light



## DATASHEET RESCUE

### BUTTON DESCRIPTION

The handheld has 8 buttons:

- N° 1 button "SYSTEM START" / "CONFIRM FUNCTION SELECTION" (START)
- N° 1 button "SYSTEM STOP" (STOP)
- N° 4 buttons "HANDLING" (↑, ↓, ←, →)
- N° 1 button "LIGHT" (●)
- N° 1 button "SELECTION" (●) (FLOOR/WINCH)

The following table describes the operation(s) of each buttons:



SYSTEM START / CONFIRM FUNCTION SELECTION	(START)		(STOP)	SYSTEM STOP
<b>FLOOR:</b> UP <b>WINCH:</b> IN	(↑)		(↓)	<b>FLOOR:</b> DOWN <b>WINCH:</b> OUT
<b>FLOOR:</b> IN <b>WINCH:</b> TRANSLATION LEFT	(←)		(→)	<b>FLOOR:</b> OUT <b>WINCH:</b> TRANSLATION RIGHT
<b>LIGHT</b>	(●)		(●)	<b>FUNCTION SELECTION</b> (FLOOR/WINCH)

### BACKLIGHT DESCRIPTION

The handheld has one light sensor that allows to turn ON the keyboard backlight when necessary.

## LEDS DESCRIPTION

The handheld has 2 LEDs. Each LED corresponds to a different function and their behavior depicts the system status:

SYMBOL	LED	FUNCTION	LED STATUS		DESCRIPTION LED
	GREEN	FLOOR	FAST BLINK	(1)	FUNCTION SELECTION MODE
			SLOW BLINK	(2a)	FUNCTION FLOOR CONFIRMED
			DOUBLE FLASH	(3a)	TRANSMISSION
			BLINK (WITH "WINCH" FUNCTION SELECTED)	(4a)	ALMOST LOW BATTERY
			FIXED (WITH "WINCH" FUNCTION SELECTED)	(5a)	LOW BATTERY
	GREEN	WINCH	FAST BLINK	(1)	FUNCTION SELECTION MODE
			SLOW BLINK	(2b)	FUNCTION WINCH CONFIRMED
			DOUBLE FLASH	(3b)	TRANSMISSION
			BLINK (WITH "FLOOR" FUNCTION SELECTED)	(4a)	ALMOST LOW BATTERY
			FIXED (WITH "FLOOR" FUNCTION SELECTED)	(5a)	LOW BATTERY

(1) **FAST BLINK**: when button "SELECTION" () is pressed, the LEDs blink quickly (each 0,5s) alternately (FLOOR↔WINCH). This status is named "FUNCTION SELECTION".

(2a) **SLOW BLINK**: the green LED "FLOOR" blink slowly (each 1,5s) to indicate that "FLOOR" function is confirmed. With "HANDLING" buttons, it is possible to activate the related outputs.

(2b) **SLOW BLINK**: the green LED "WINCH" blink slowly (each 1,5s) to indicate that "WINCH" function is confirmed. With "HANDLING" buttons, it is possible to activate the related outputs.

(3a) **DOUBLE FLASH**: the green LED "FLOOR" flashes twice when an "HANDLING" button is pressed. If the button is held down and the command is confirmed by the controller, then the LED flashes twice each 1,5 seconds.

(3b) **DOUBLE FLASH**: the green LED "WINCH" flashes twice when an "HANDLING" button is pressed. If the button is held down and the command is confirmed by the controller, then the LED flashes twice each 1,5 seconds.

(4a) **BLINK (WITH "WINCH" FUNCTION SELECTED)**: the green LED "FLOOR" blinks when an "HANDLING" button is pressed during the execution of "WINCH" function. It indicates that battery level is almost low.


(4b) **BLINK (WITH "FLOOR" FUNCTION SELECTED)**: the green LED "WINCH" blinks when an "HANDLING" button is pressed during the execution of "FLOOR" function. It indicates that battery level is almost low.

(5a) **FIXED (WITH "WINCH" FUNCTION SELECTED)**: the green LED "FLOOR" remains ON when an "HANDLING" button is pressed during the execution of "WINCH" function. It indicates that battery level is low.

(5b) **FIXED (WITH "FLOOR" FUNCTION SELECTED)**: the green LED "WINCH" remains ON when an "HANDLING" button is pressed during the execution of "FLOOR" function. It indicates that battery level is low.

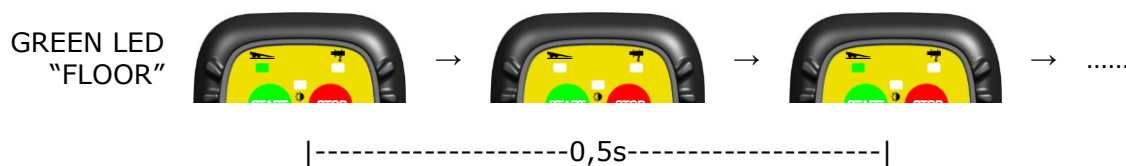
### FUNCTIONS ACTIVATION

Follow the procedure below to activate the outputs:

1. Press "SELECTION" button(  ) to activate "FUNCTION SELECTION" mode. "SELECTION" button allow to select a function between FLOOR or WINCH. The green LED "FLOOR" on the handheld begins to flash each 0,5 second (fast blink).



#### FUNCTION SELECTION: GREEN LED "FLOOR" TURNS ON




- Press again "SELECTION" button (  ) until the LED of the desired function turns ON by flashing each 0,5 second.



### LED OPERATION



"SB": "SELECTION" button

- After selecting the desired function, press "START" button (  ) to confirm the selection: the corresponding LED starts flashing each 1,5 seconds (slow blink).



### LED OPERATION WITH SELECTION CONFIRMED (EXAMPLE: WINCH FUNCTION)



4. Press the "HANDLING" buttons (↑, ↓, ←, or →) to activate the outputs related to the selected function.



5. To select another function press "STOP" button (⬛), then perform the procedure from step 1.

### INPUT

The controller has one digital input that allows to configure the outputs in M (MAINTAINED) mode or L (LATCHED) mode.

The possible input connections are described in the following table:

WIRE	CONNECTION	OUTPUTS MODE
BEIGE/WHITE	- ALIM.	M
	+ ALIM.	L

M: MAINTAINED function. As long as the user holds the button pressed, the correspondent output on the controller stays on. It will be switched off as soon as the user releases the button.

L: LATCHED function (or ON/OFF). The controller output stays on when the button is released. It will be switched off with the next pression of the same button.

The following tables illustrates how the system works according to the selected function.










	<b>DATASHEET</b> RESCUE	
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

## FUNCTION FLOOR

Green LED "FLOOR" (  ) is blinking on the handheld.

### INPUT CONNECTED TO "- ALIM."

BUTTON	FUNCTION	CONTROLLER OUTPUTS BEHAVIOUR	MODE
 (START)	SYSTEM START	E.O. On	-
 (STOP)	SYSTEM STOP	E.O. Off	-
	FLOOR UP	M.O. + EV 1	M
	FLOOR DOWN	M.O. + EV 2	M
	FLOOR IN	M.O. + EV 3	M
	FLOOR OUT	M.O. + EV 4	M
	LIGHT <sup>1</sup>	EV 17	L

### INPUT CONNECT TO "+ ALIM."

BUTTON	FUNCTION	CONTROLLER OUTPUTS BEHAVIOUR	MODE
 (START)	SYSTEM START	E.O. On	-
 (STOP)	SYSTEM STOP	E.O. Off	-
	FLOOR UP	M.O. + EV 1	L
	FLOOR DOWN	M.O. + EV 2	L
	FLOOR IN	M.O. + EV 3	L
	FLOOR OUT	M.O. + EV 4	L
	LIGHT <sup>1</sup>	EV 17	L

M: MAINTAINED function. As long as the user holds the button pressed, the correspondent output on the controller stays on. It will be switched off as soon as the user releases the button.

L: LATCHED function (or ON/OFF). The controller output stays on when the button is released. It will be switched off with the next pression of the same button.

<sup>1</sup>: this function can also be activated when the system is in "STOP SYSTEM" mode.

With this function, simultaneous activation of two or more outputs may occur only as per the following table:

Y: possible    N: not possible








	1	2	3	4	17
1	\	N	N	N	Y
2	N	\	N	N	Y
3	N	N	\	N	Y
4	N	N	N	\	Y
17	Y	Y	Y	Y	\

	<b>DATASHEET</b> RESCUE	
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## FUNCTION WINCH

Green LED "WINCH" (  ) is blinking on the handheld.

### INPUT CONNECTED TO "- ALIM."

BUTTON	FUNCTION	CONTROLLER OUTPUTS BEHAVIOUR	MODE
 (START)	SYSTEM START	E.O. On	-
 (STOP)	SYSTEM STOP	E.O. Off	-
	WINCH IN	M.O. + EV 5	M
	WINCH OUT	M.O. + EV 6	M
	WINCH TRANSLATION LEFT	M.O. + EV 7	M
	WINCH TRANSLATION RIGHT	M.O. + EV 8	M
	LIGHT <sup>1</sup>	EV 17	L

### INPUT CONNECT TO "+ ALIM."

BUTTON	FUNCTION	CONTROLLER OUTPUTS BEHAVIOUR	MODE
 (START)	SYSTEM START	E.O. On	-
 (STOP)	SYSTEM STOP	E.O. Off	-
	WINCH IN	M.O. + EV 5	L
	WINCH OUT	M.O. + EV 6	L
	WINCH TRANSLATION LEFT	M.O. + EV 7	L
	WINCH TRANSLATION RIGHT	M.O. + EV 8	L
	LIGHT <sup>1</sup>	EV 17	L

M: MAINTAINED function. As long as the user holds the button pressed, the correspondent output on the controller stays on. It will be switched off as soon as the user releases the button.

L: LATCHED function (or ON/OFF). The controller output stays on when the button is released. It will be switched off with the next pression of the same button.

<sup>1</sup>: this function can also be activated when the system is in "STOP SYSTEM" mode.

With this function, simultaneous activation of two or more outputs may occur only as per the following table:

Y: possible    N: non possible

	5	6	7	8	17
5	\	N	N	N	Y
6	N	\	N	N	Y
7	N	N	\	N	Y
8	N	N	N	\	Y
17	Y	Y	Y	Y	\

## 5. Wiring harness

