Installation and maintenance notebook USB VERSION DETECT LINE NG

Attention: document to be filled during each installation. If the system is installed by you, thank you to return imperatively the double page of the middle (P9-10-11-12). Otherwise, the guarantee can not be taken into account.

In order to ensure the proper functioning of the system, preventive maintenance must be carried out every 24 months.

Thank you to contact the company MADE for the establishment of a maintenance contract.



MADE-SA

167, Impasse de la garrigue F 83210 LA FARLEDE

Phone: +33 (0) 494 083 198

E-mail: contact@made-sa.com - Web: www.made-sa.com





Company Name:	
Date of installation:	
Name of the installer:	
	Installation
Installation support:	
Vehicle registration:	
Vehicle characteristics:	
	Materials
<u>Central Unit case</u> serial number :	
<u>uc</u> :	Software version:
Cabin viewing box :	
	Security seal number :
	Positioning of the sensor on the support in free area Yes No***
	If not, specify why the sensor is not in free field and the cause:

General information

For optimal operation, the sensor must be in a free field on the highest point of the machine.

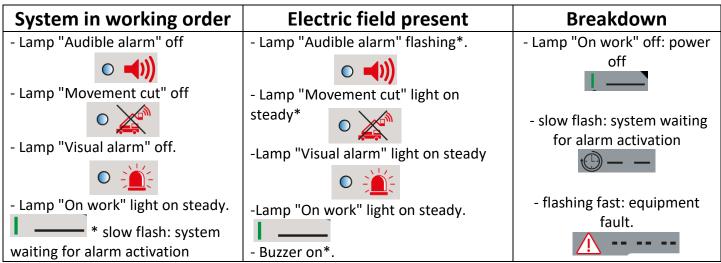
*** : MADE can't guarantee the optimal functioning of the system..

Presentation

DETECT LINE NG: High Voltage line volumeric detector: HVA (< 50 kV) and HVB (> 50 kV). DETECT LINE NG warns the user by an audible alarm when the lifting machine enters a risk zone.

Central unit

Sensor management and control sensors, generation of audible and visual alarms, movement blocking management (optional). Lamp « power on »



^{*} Until press "Alarm Report" button located on the display unit.

Outside display unit

The outside display unit indicates the danger and allows acknowledging the audible alarm and the "Movement cut" (optional).

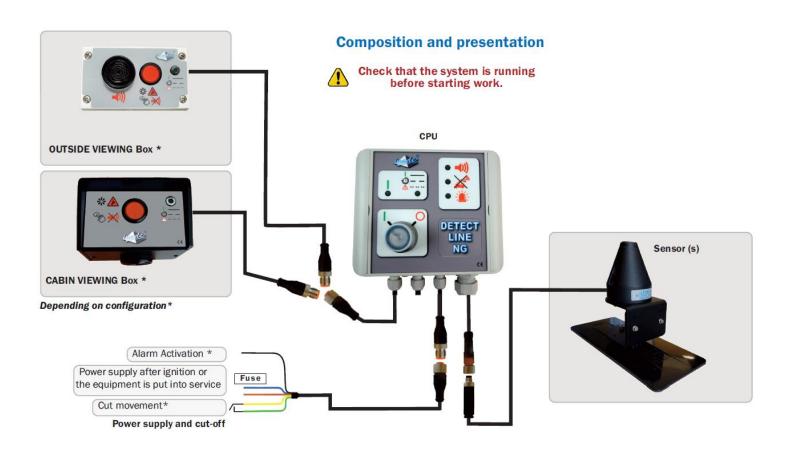
System in working order	Electric field present	Breakdown	
- Lamp "Danger" off	- Lamp "DANGER" flashing* Buzzer on*.	- flashing fast: equipment fault.	

^{*} Until press "Alarm Report" button located on the outside display unit.

Sensor

Sensor measure the electric field radiated by the High Voltage lines and communicates by wire connection with the CPU.

Connections



Full system connection:

	Outside display unit present:	Yes	☐ No
✓	Power supply of the central unit:		
	Power:	☐ 12V	24V
	Indicate the place:		
✓	Power supply after + PTO	Yes	☐ No
✓	Activation of alarms at power up	Yes	☐ No
✓	Cut movement	Yes	☐ No
	Indicate the place:		
	Observations:		

Sensor wiring:

Use the M8 3-pin male connector for sensor wiring

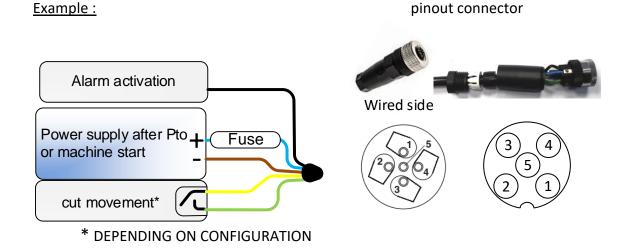


Warning: the earth cable must be as small as possible. Use the Allen key supplied for the wiring

Number	Use
1	CPU output, 5V power supply (white)
3	CPU input, sensor measurement (blue)
4	CPU output, mass (braid)

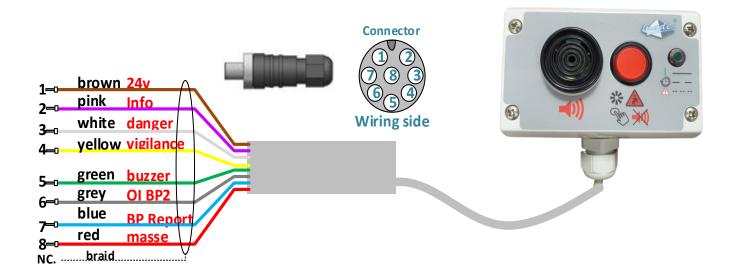
Power supply, Cut-off and alarm activation connection:

Pin number	Operation		ermolded ctor cable		5x1mm² ack		5x0.5mm² Frey
1	Power 0V	Brown		Brown		Brown	
2	Cut movement (in)	White		Green		Black	
3	Power 12/24V	Blue		Blue		Blue	
4	Alarm activation	Black		Black		Grey	
5	Cut movement (out)	Grey		Yellow		Black	



Alarm activation: factory configuration in + 12 / 24V

Display unit wiring:



Installation of the security seal at the end of the installation and testing:

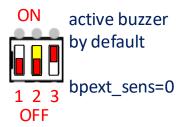
Security seal	Yes	No

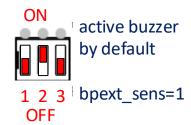
The security seal is fitted at the end of the installation by fixing it to one of the connection cables

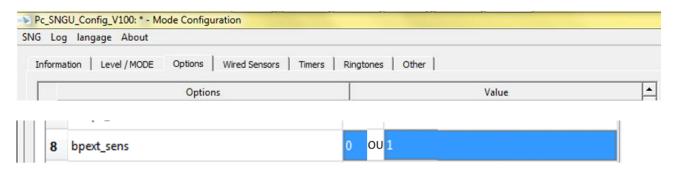
Alarm activation

To validate the alarm monitoring mode:

Version without PTO activation







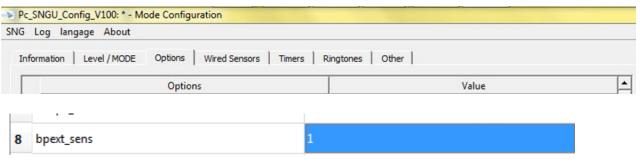
Another way is to reverse the direction of bpext_sens using software « SNGU_Config_Vxxx »).

To activate the alarm monitoring mode, the control input must therefore be activated at ground potential (GND) or V + (12-24V). To do this, you must also configure the BPEXT_SENS option in the central unit (using the "Pc_SNG_Config_Vxxx" software)

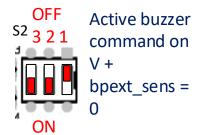
Version: Signal Power take-off to ground



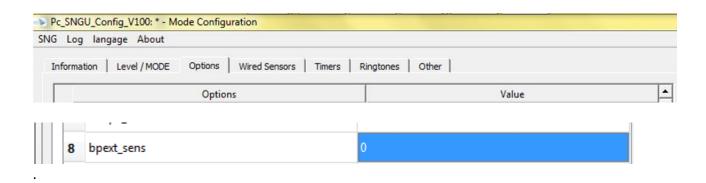
2 actions for configuration are to be performed: Position the switches on the CPU board Configure the option with the software



Version: Power take-off to 12-24V



2 actions for configuration are to be performed: Position the switches on the CPU board Configure the option with the software



Pages (9-10-11-12) are to be sent back to the MADE company.

DETECT LINE NG Installation and maintenance NoteBook



Attention: Page (9-10-11-12) to be filled during each installation, and returned to us

Return the double page at the address:

MADE S.A.

167, Impasse de la garrigue F 83210 LA FARLEDE

Phone: +33 (0) 494 083 198

Or by mail:

interventions@made-sa.com

Otherwise, the guarantee cannot be taken into account.



	General information
Company Name:	
Date of installation:	
Name of the installer:	
	Installation
Installation support:	
Vehicle registration:	
Vehicle characteristics:	
	Materials
	Software version:
Display unit :	
	Security seal number:
	Positioning of the sensor on the support in free area yes No***
	If not, specify why the sensor is not in free field and the cause:
*** : MADE can guarantee optima	al system.

For optimal operation, the sensor must be in a free field on the highest point of the machine.

Fill in idem page 4

Specify:		
Outside display unit present:	Yes	☐ No
✓ Power supply of the central unit:		
POWER:	☐ 12V	24V
Indicate the place:		
✓ Power supply after + PTO	Yes	☐ No
✓ Activation of alarms at power up	Yes	☐ No
Other (specify)		
Indicate the place:		
✓ Cut movement	Yes	☐ No
Indicate the place:		
Observations :		
Fill in idem page 6		
Installation of the security seal at the end	d of installation	on and testing:
Security seal	Yes	No

	Tests	
✓ Sensor test Testeur TC Use Testeur TC HT. Otherwise, approach a 236	Productions in the Production of the fact in the second of	
✓ Display unit Tes	it	
✓ General control of Audible a Visual ala In service	arms Yes	urce to the sensor) No No No No
MADE-SA:	Miris	ag dana hy
Name:	VVIIII	ng done by
Signature :		
Customer:		
	Supply of the simplified form or the user guide	Basic training with system explanation
Name:		
Signature :		
Observations:		

Tests

✓ Sensor test

Testeur TC HT



Use <i>Testeur TC HT.</i> Otherwise, approach a 23	OV cable on the sensor.	
✓ Display unit Tes	t	
 ✓ General control of ✓ Audible a ✓ Visual ala ✓ In service 	arms Yes	urce to the sensor) No No No No
MADE-SA:		
	Wiri	ng done by
Name:		
Signature:		
Customer:		
	Supply of the simplified form or the user guide	Basic training with system explanation
Name:		
Signature:		
Observations:		

Technical visits

Date	Comments

Work	Name/Signature / Stamp

Technical visits

Date	Comments

Work	Name/Signature / Stamp

Reminder on the Electrical lines

AN OPERATIONAL AID

Detection of powered overhead lines from 20000Volts~.

Warning:

The system is inoperative on:

- Low Voltage overhead power lines (380V)
- Medium voltage direct current power lines (trams, railways in general, ..)

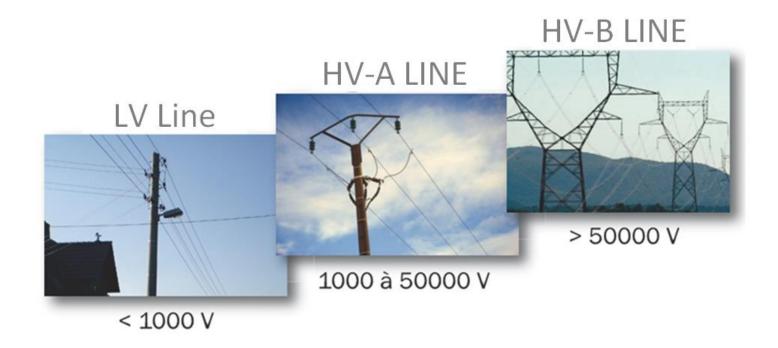
The VIGILANCE and ATTENTION of the operator must remain maximum when approaching live power lines.

Electrocution can happen even without touching the line!



Reminder on High Voltage lines

The different lines!



Safety distances

Up to 50000 volts: 3 m



50000 volts and over: 5 m

