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Engine Control Panel

Operator's Manual

SSG 20

SSG 30

Revision 0
U_CTSSG_EN

Section 1 – General information

1.1. Introduction to SSG

The SSG range consists of a control and protection panel set used with propulsion engines. All units are designed for easy operation by both the installer and the end customer, with different degrees of performance, depending on the model.



White SSG 20 Panel
(Standard)



White SSG 30 Panel
(Standard)



Black SSG 20 Panel
(Optional)



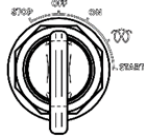



Black SSG 30 Panel
(Optional)

1.2. Model features

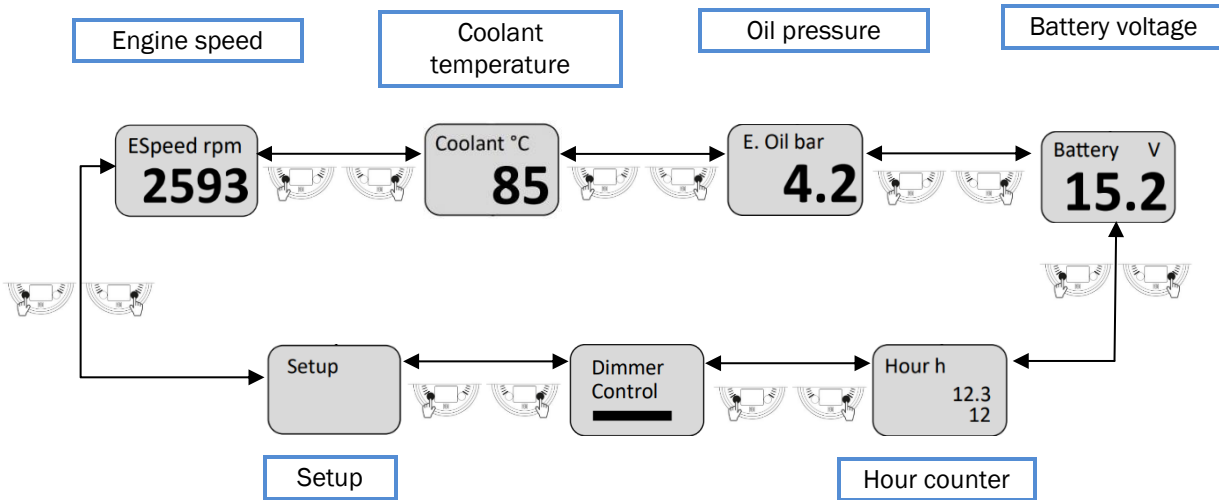
	SSG 20	SSG 30
5 POSITION KEY	•	•
MULTIFUNCTION TACHOMETER	•	•
TEMPERATURE GAUGE		•
PRESSURE GAUGE		•

Section 2 – Operation and setup

2.1. Panel instruments

5 POSITION KEY		<ul style="list-style-type: none"> • Engine stop • Power supply shutdown • Switching on the power supply • Engine preheating • Engine start-up
MULTIFUNCTION TACHOMETER		<ul style="list-style-type: none"> • Coolant temperature values • Engine operating hours • Oil pressure value • Battery voltage value • Engine speed value (RPM)
TEMPERATURE GAUGE		<ul style="list-style-type: none"> • Coolant temperature value
PRESSURE GAUGE		<ul style="list-style-type: none"> • Oil pressure value

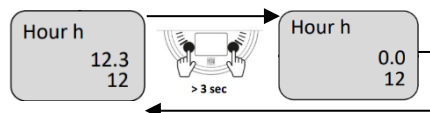
2.2. Displays



2.3. Operating hours reset

The operating hours for each trip can be reset by following the procedure in the diagram below.

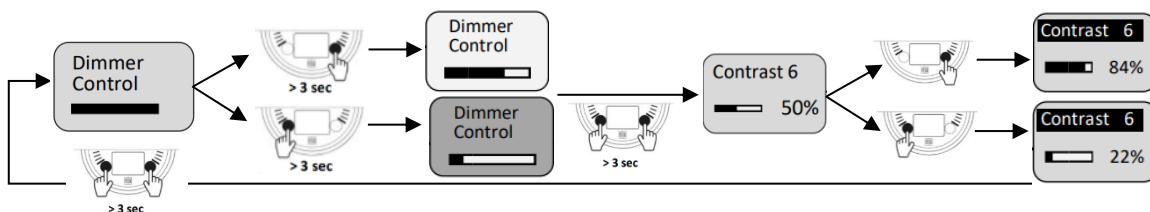
From the operating hours display, press and hold both tachometer buttons for 3 seconds until the hours are reset.



2.4. Adjusting the dimming and contrast of the display

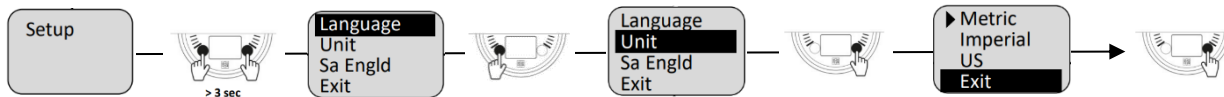
The dimming and contrast of the display can be adjusted by following the procedure in the diagram below.

From the "Dimmer Control" screen, press and hold the right button to increase the dimming and the left button to decrease the dimming. To change the contrast, from the "Dimmer Control" screen, both buttons must be held down for 3 seconds. The contrast increases when the right button is pressed and decreases when the left button is pressed.



2.5. Setup

2.5.1. Units change



Section 3 – Alarm list

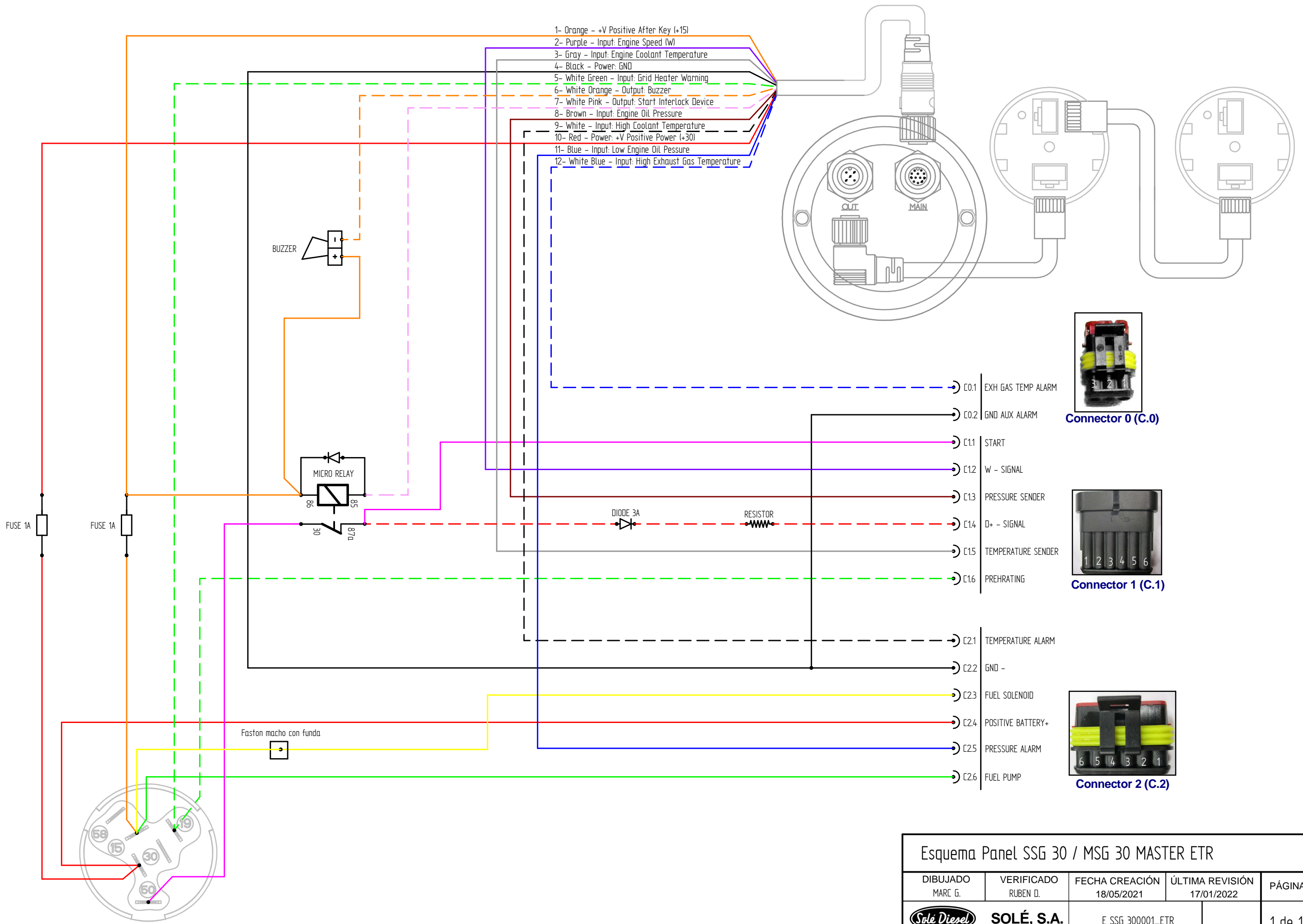
3.1. Visual and sound signals

ALARM CODE	VISUAL ALARM	DESCRIPTION
EOver Speed		OVER SPEED. The alarm is activated when the engine exceeds the maximum RPM (depending on the model).
EUndrSpeed		UNDER SPEED. The alarm is activated when the engine RPM is below the idle RPM of each model for 50 seconds.
VLow P Oil		ENGINE VERY LOW OIL PRESSURE. The alarm is activated when the pressure value is lower than the value set by the pressure contact for 3 seconds.
Low P Oil		ENGINE LOW OIL PRESSURE. The alarm is activated when the oil pressure value is below the minimum pressure value determined for each model for 3 seconds. NOTE: Until the engine is started, it is normal that the oil pressure is low, and the alarm is active.
VHigh Temp		ENGINE VERY HIGH COOLANT TEMPERATURE. The alarm is activated when the coolant temperature value is higher than that set by the temperature switch for 5 seconds.
High Temp		ENGINE HIGH COOLANT TEMPERATURE. The alarm is activated when the coolant temperature value is higher than the value set for each model for 5 seconds.
Low Battery		BATTERY LOW VOLTAGE. The alarm is activated when the battery voltage value is below the set value for each model for 10 seconds.

Electrical wiring diagrams



ALARM CODE	VISUAL ALARM	DESCRIPTION
High Battery		BATTERY HIGH VOLTAGE. The alarm is activated when the battery voltage value is higher than the set value for each model for 10 seconds.
Low Batt Er		ALTERNATOR NOT CHARGING. The alarm is activated when the battery voltage value is lower than the value determined for each model for 10 seconds and the engine is running at more than 500 RPM. Indicates that the alternator is not charging. NOTE: When the engine is not yet started, the alternator is not charging and therefore this alarm is activated.
High E.G.T		HIGH EXHAUST GAS TEMPERATURE. The alarm is activated when the exhaust gas temperature value is higher than preset by the exhaust temperature switch for 5 seconds. This alarm is only available if the engine is fitted with the <u>Exhaust Temperature Alarm Kit</u> .
Grid H. 5s / RdyToStart		PRE-HEATING. The alarm is activated when the glow plugs are energized. It goes off after a few seconds to indicate that the engine is ready to start. NOTE: The only purpose of this alarm is to inform the user, it does not act on the engine. The glow plugs continue to operate even if the LED is not on, and the key is in the glow position.
E.Oil bar/FAULT!		FALLO EN EL CABLEADO DEL SENSOR DE ACEITE. La alarma se activa cuando el panel detecta que el cableado de lectura del sensor de aceite está defectuoso.
Coolant °C/FAULT!		FALLO EN EL CABLEADO DEL SENSOR DE TEMPERATURA. La alarma se activa cuando el panel detecta que el cableado de lectura del sensor de temperatura está defectuoso.
Eng. Speed FAULT!		FALLO EN EL CABLEADO DE LECTURA DE RPM. La alarma se activa cuando el panel detecta que el cableado de lectura de RPM está defectuoso.



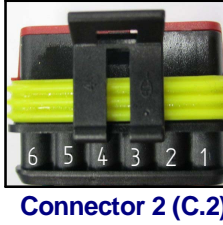
- 1- Orange - +V Positive After Key (+15)
- 2- Purple - Input: Engine Speed (W)
- 3- Gray - Input: Engine Coolant Temperature
- 4- Black - Power: GND
- 5- White Green - Input: Grid Heater Warning
- 6- White Orange - Output: Buzzer
- 7- White Pink - Output: Start Interlock Device
- 8- Brown - Input: Engine Oil Pressure
- 9- White - Input: High Coolant Temperature
- 10- Red - Power: +V Positive Power (+30)
- 11- Blue - Input: Low Engine Oil Pressure
- 12- White Blue - Input: High Exhaust Gas Temperature



- C0.1 EXH GAS TEMP ALARM
- C0.2 GND AUX ALARM
- C1.1 START
- C1.2 W - SIGNAL
- C1.3 PRESSURE SENDER
- C1.4 D+ - SIGNAL
- C1.5 TEMPERATURE SENDER
- C1.6 PREHRATING

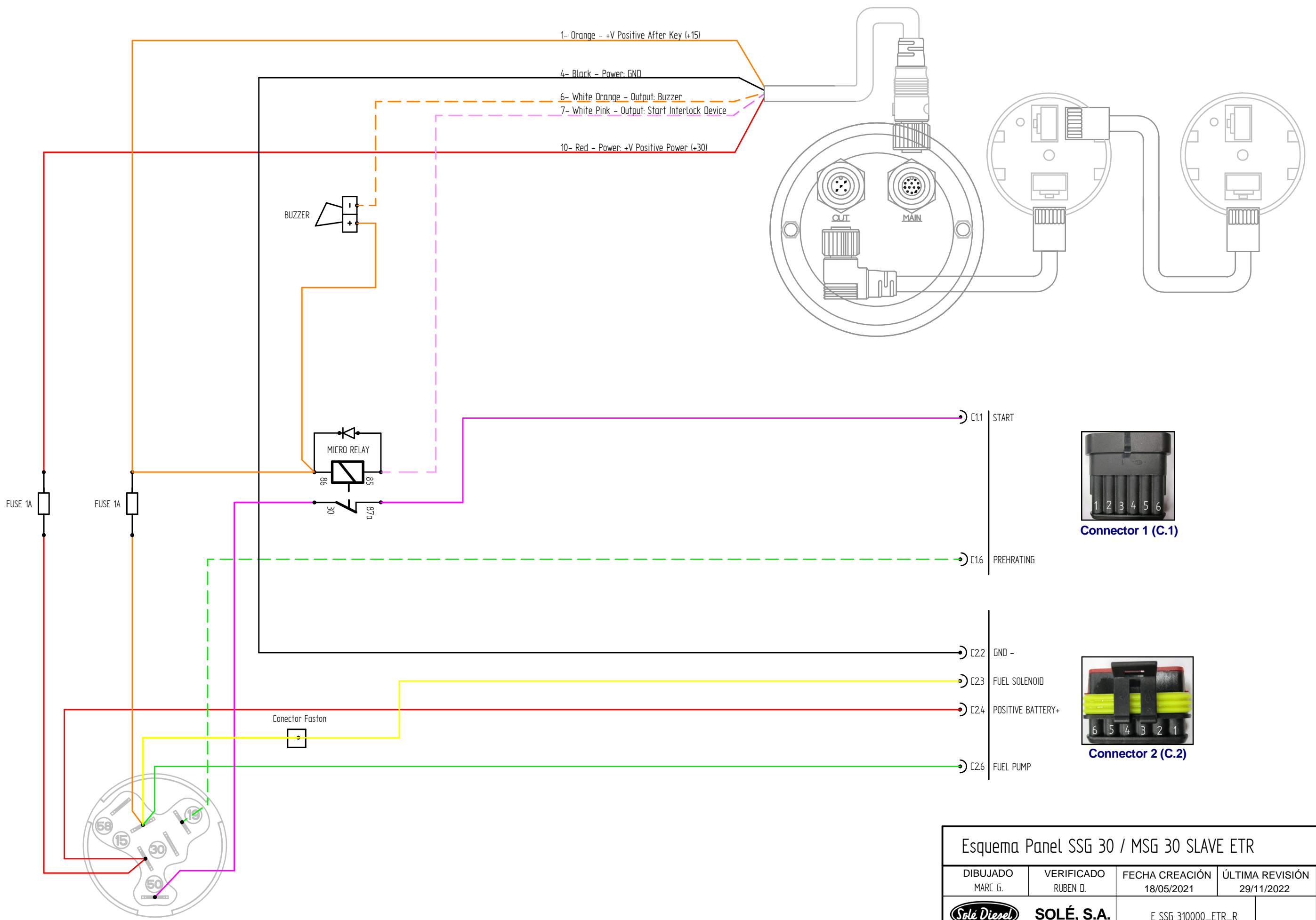


- C2.1 TEMPERATURE ALARM
- C2.2 GND -
- C2.3 FUEL SOLENOID
- C2.4 POSITIVE BATTERY+
- C2.5 PRESSURE ALARM
- C2.6 FUEL PUMP



Esquema Panel SSG 30 / MSG 30 MASTER ETR

DIBUJADO MARC G.	VERIFICADO RUBEN D.	FECHA CREACION 18/05/2021	ÚLTIMA REVISION 17/01/2022	PÁGINA
SOLE, S.A.		E SSG 300001_ETR		1 de 1



Esquema Panel SSG 30 / MSG 30 SLAVE ETR

DIBUJADO MARC G.	VERIFICADO RUBEN D.	FECHA CREACIÓN 18/05/2021	ÚLTIMA REVISIÓN 29/11/2022	PÁGINA
		SOLÉ, S.A.		E SSG 310000_ETR_R
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MARINE DIESEL ENGINES · GENSETS · PROPELLERS · ACCESSORIES

C-243 b, km 2 · 08760 Martorell (Barcelona)
Tel. +34 93 775 14 00 · Fax +34 93 775 30 13
www.solediesel.com · info@solediesel.com

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