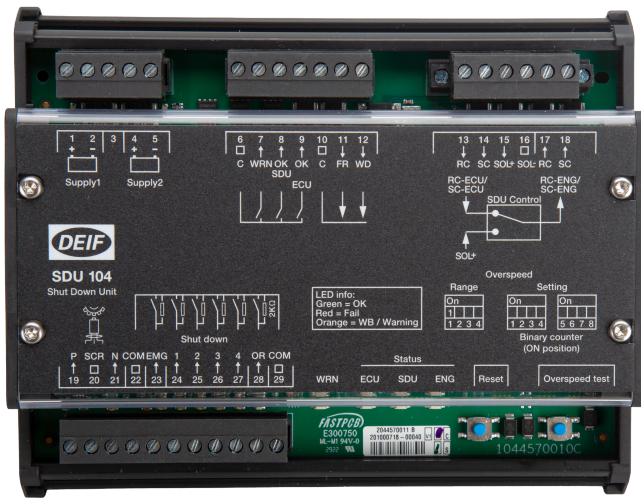




- SDU operation mode (controller failure)
 - The SDU 104 controls the engine, because of controller failure. The SDU 104 keeps the same output state as before the failure.

Technical specifications

Power supply

- Nominal voltage: 12/24 V DC (-25 %/+50 %)
- Operating range: 8.5 to 36 V DC
- Voltage withstand: Reverse polarity
- Power supply drop-out immunity: 0 V DC for 10 ms (coming from minimum 12 V DC)
- LED indication: 2 x yellow (indicates missing power input)
- Power consumption: 1 W typical. 2 W max.

Tacho input

- Voltage input range: $\pm 1 V_{\text{peak}}$ to $70 V_{\text{peak}}$
- W: 8 to 36 V

Shutdown inputs

- 4 x shutdown inputs
- 1 x emergency stop input
- 1 x override input
- 6 x LED indications
- Contact switching

Watchdog (WD) input

- Optocoupler, bi-directional
- ON: 8 to 36 V DC

Fault reset (FR) input

- Optocoupler, bi-directional
- ON: 8 to 36 V DC
- Same function as a reset button

Outputs

- 2 x relay outputs
- 2 x internal relays (to control the stop coil and run coil using the SOL+ supply)

Environment

- Operating temperature: -40 to +70 °C (-40 to +158 °F)
- Storage temperature: -40 to +85 °C (-40 to +185 °F)

Approvals

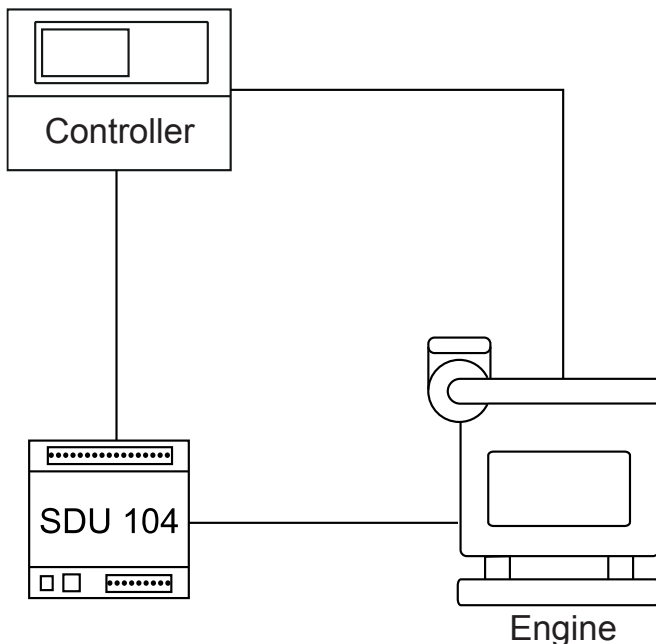
- CE
- Pending: DNV GL approval
- Pending: LR approval
- Pending: UL approval
- See www.deif.com for the most recent approvals.

About the Shut Down Unit SDU 104

The SDU 104 is a safety device for the protection of marine engines. The unit keeps the engine running if the main controller fails. The unit can also safely shut down the engine.

To meet the restrictions of the classification societies, the SDU 104 only uses discreet logic. This means that it does not have a microprocessor or a programmable electronic circuit.

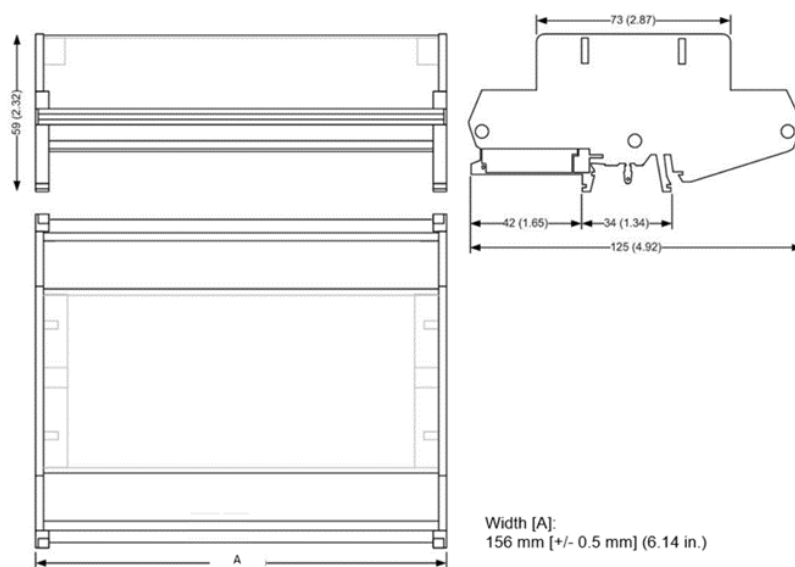
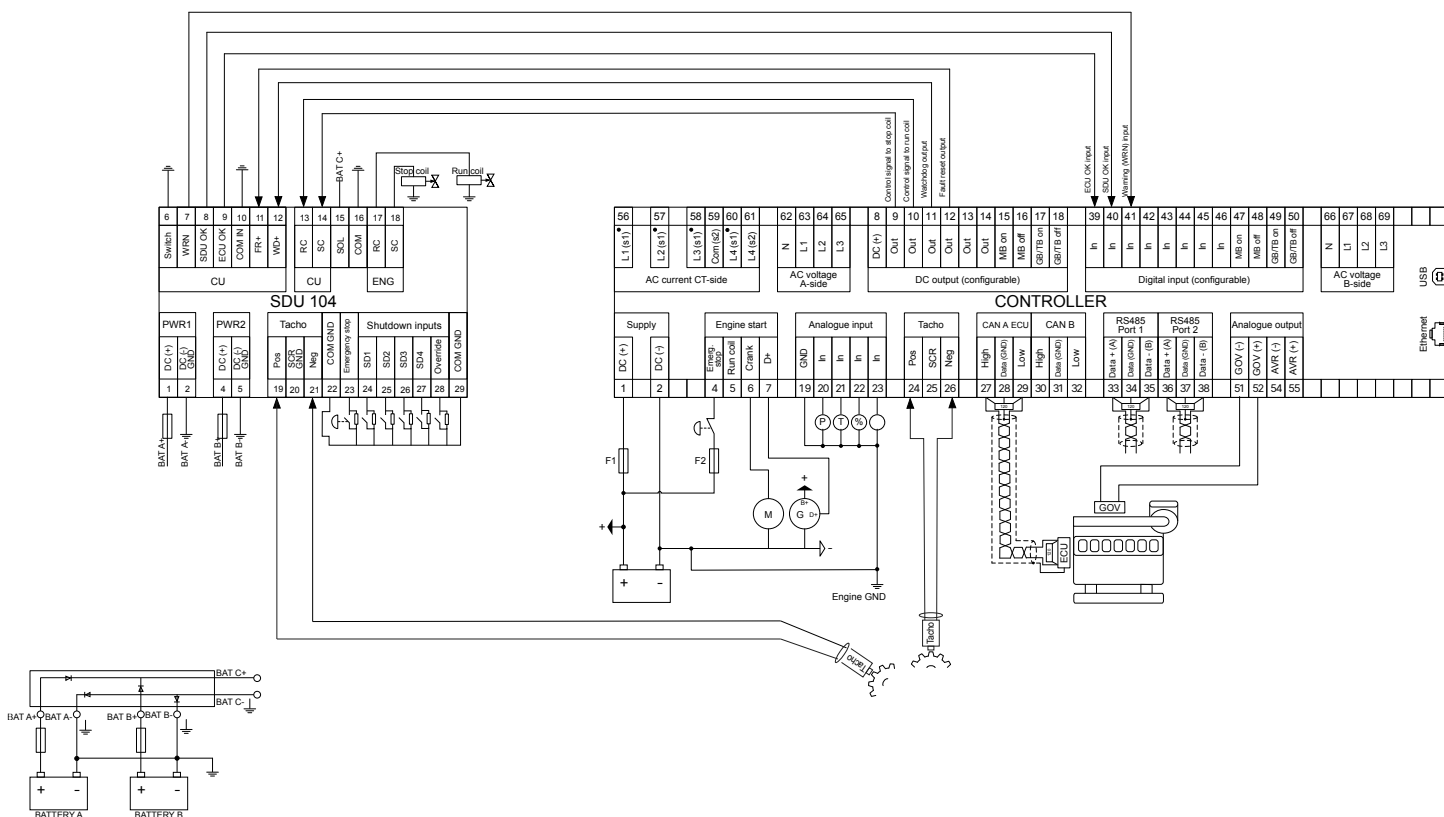
Application diagram



Operation modes

The SDU 104 has these operation modes:

- Normal operation mode
 - The main controller operates as normal.



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