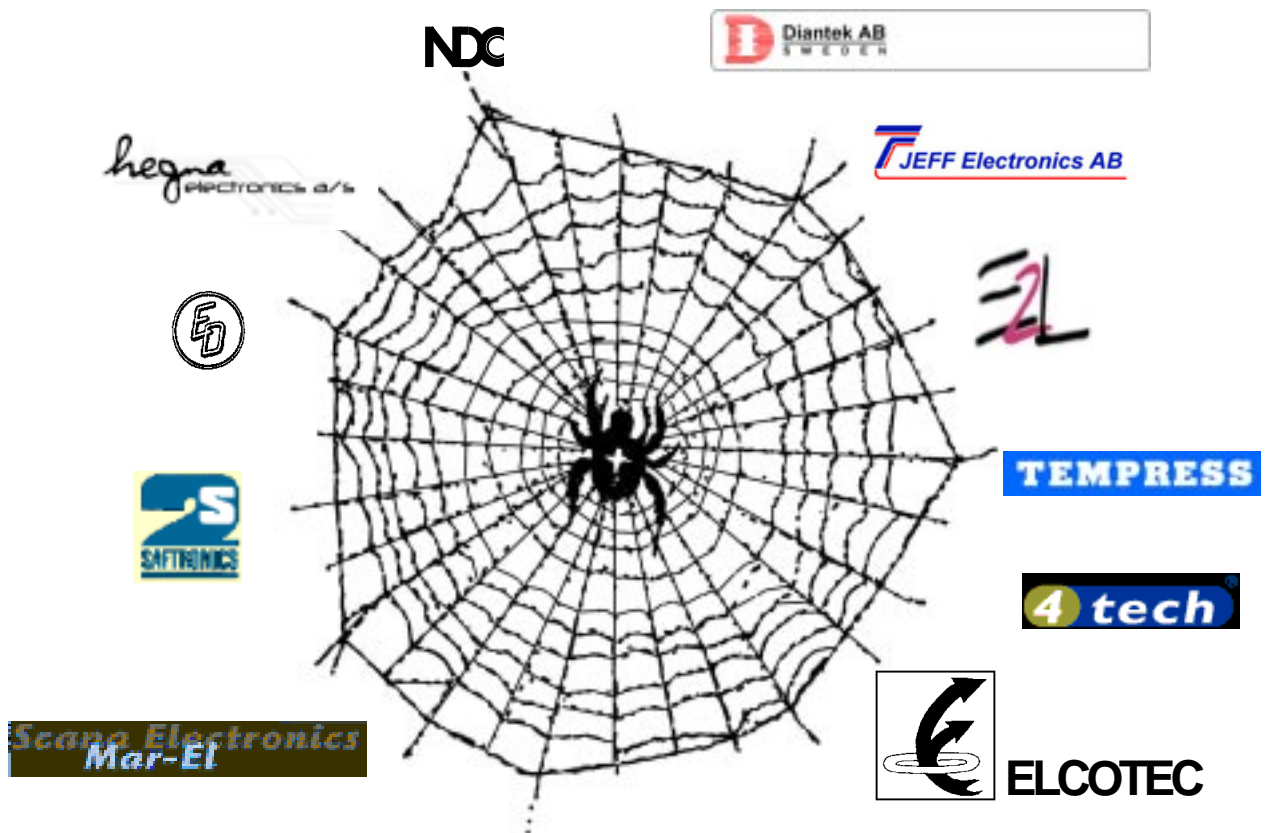


IMSAB COMPONENT GUIDE for industry and shipping



Electronic start/monitoring unit for diesel engine DS 12 -24



DS 12-24

Electronic start/monitoring unit for diesel engine



- **Pre connected cables**
- **Reduced purchasing cost**
- **Compact unit for installation in diesel engine control cabinet.**
- **Remote operation with DSR 12-24**
- **Indication: Running, Power, Local, Remote, Oil press, Over speed, Cooling water temperature and one free trip input.**
- **Operation: Start, Stop/Reset, Local, Remote.**
- **IP55 front**
- **Certificated in CE-standards EN 50 081-1 and EN 50 082-2**

DESIGN

DS 12-24 is a compact unit for installation in diesel engine starter cabinet.

- To the DS 12-24 a remote unit DSR 12-24 can be connected. The remote DSR 12-24 can not operating the engine if the local DS 12-24 is at Local mode. In the other hand are all indicators status shown at the remote unit.

- Press the start button at the panel, and the engine will start. The internal relays will then make the starting motor /start solenoid. The oil pressure switch is blocked during the start for 10 seconds. Button for starting the engine is blocked when the engine are running.

- Stop signal are on at max 15 seconds after that the engines running signal was de activate.

- When an engine is stand still, a heater can been connect. The heater will be automatically switched on 15 minutes after that the engine has been stopped.

DS12-24 controls diesel engine oil pressure switch, cooling water temperature and over speeding relay.

Indication trips:

Running, Local/Remote and Control Power ON.

Indication, alarm:

Low oil pressure, High temperature cooling water, Over speed relay and Fault (Free input for stopping of diesel engine)

Control unit:

DS12-24 (Local unit): Start, Stop, Local/Remote

DSR12-24 (Remote unit): Start, Stop.

Input signal from diesel engine:

Low oil pressure, High temperature cooling water, Over speed relay and Fault (Free input for stopping of diesel engine)
Running, Emergency shutdown, One free input for tripping the diesel engine.

Output signal from DS12-24

Start solenoid, Stop solenoid, Engine stand still heater, Fault alarm.

These output are from internal relays in DS12-24. Output contacts are potential free change-over relay contacts.

Connection of DS 12-24 and DSR 12-24:

Cable 5 x 1,0mm² with overall screen. Maximum cable length 600m.

SECURITY

As all IMSAB-products DS12-24/DSR12-24 are fitted with various protection devices against wrong electrical connection and electric interference. The panel is powered directly from the LC supply, without requiring stabilization.

The unit is in accordance with CE-standards: EN 50 082-2; EN 50 081-1; Test lab: NEMKO -Oslo

INSTALLATION

Wiring - only 10 to 15 wires are to be connected in one end. Pre-wired wires are 1,5m and gives reduced purchasing and document-tation cost. Same unit can be used regardless of motor size. Less commising and start up costs.

SPECIFICATION

Supply voltage: 12 & 24VDC; max 30mA
Output contacts (K1-K4): 30VAC/DC max 10A.
Weight: 550g incl. wires.
Protection: Front IP55, RearIP20
Wires: length 1,5m
Ambient temperature: min -5°C max 60°C.
Hygrosopic moisture: max 80% not condensed.
Main dimension: 48x96x85 mm (hxbxd)
Panel recess: 44x92 mm



Text: English text, other text on request
 Indicator: Twin LED
 Red LED for unacknowledged alarm, Green LED for Running,
 Yellow LED for status mode.

ORDERING INSTRUCTIONS

DS 12 Diesel start 12V- power supply
 DS 24 Diesel start 24V- power supply
 DSR 12 Diesel start 12V- power supply, remote unit
 DSR 24 Diesel start 24V- power supply, remote unit

DS 12-24 CONNECTION

Pre-wired wires from DS 12-24

————— 12VDC White 0,5mm²
 =———— Black 0,75mm²

