

TECHNICAL DATASHEET

EXPOLASGDRLY / EXPOLASGDRLY2

Diesel Engine Stop Relay Box - Single & Twin Engine

The EXPOLASGDRLY (single engine) and EXPOLASGDRLY2 (twin engine) relay boxes are OLAS Guardian accessories used to mechanically activate a vessel's diesel engine stop solenoid where the existing stop circuit exceeds the Guardian's internal 2A relay rating. Each unit houses a marine-rated automotive relay in a sealed, IP66 enclosure and is supplied pre-wired and built to order for the vessel's specific stop-circuit configuration.

The Guardian unit receives its power directly from the EXPOLASGDRLY / EXPOLASGDRLY2 relay box via the Guardian connection cable - a separate power feed to the Guardian is not required.

Product Images



Key Specifications

Relay reference	SPDT 12VDC 40A - Durakool, part no. DG56A-7011-76-1012
Power input	12/24V DC
Engine stop circuit connection wire gauge	14 AWG (2.5 mm ²)
Relay box power connection wire gauge	17 AWG (1 mm ²)
Enclosure IP rating	IP66
Enclosure material	PP (polypropylene)
Enclosure dimensions (W × H × D)	104 mm × 104 mm × 70 mm (83 mm × 83 mm mounting centres)
Operating temperature range	-10°C to +40°C (14°F to 104°F)

Supplied Cable Lengths

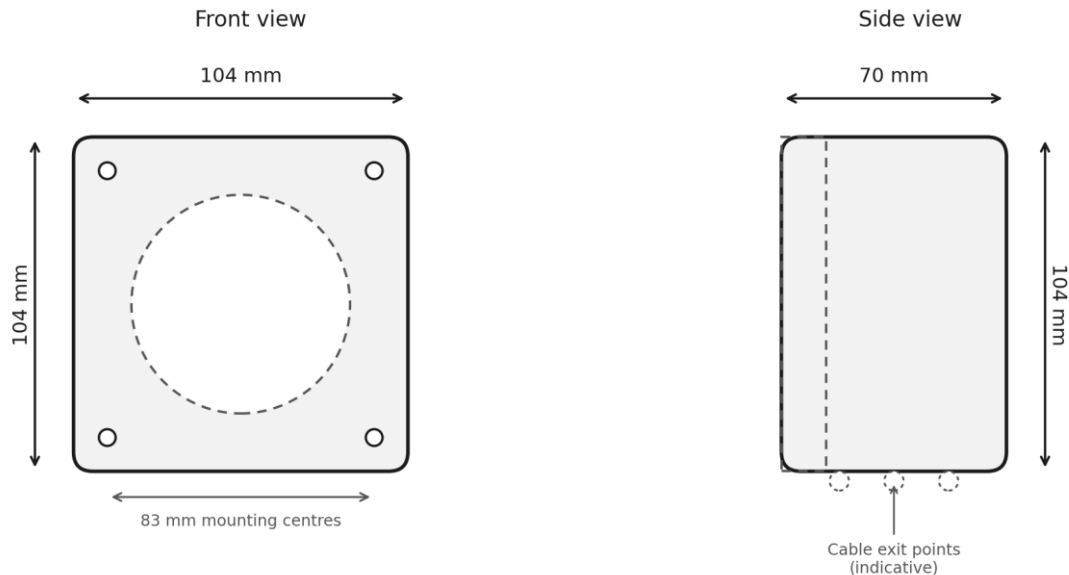
Power cable	350 mm ± 20 mm
Guardian connection cable	420 mm ± 20 mm
Engine relay cable	350 mm ± 20 mm

Note: if any supplied cable needs to be extended, use the same gauge or thicker wire and waterproof connections throughout.

A 750 mm extension cable is available for the Guardian connection cable, to extend the run between the relay box (EXPOLASGDRLY / EXPOLASGDRLY2) and the main Guardian unit where a longer cable run is required.

Enclosure Dimensions

Enclosure dimensions (nominal) - 104 mm × 104 mm × 70 mm (W × H × D)



Note: cable exit points may vary depending on system configuration.

Supplied Hardware

- 2 × A4 stainless steel securing screws and washers
- 4 × marine-grade butt splice connectors, rated 14–16 AWG

Relay Replacement

The relay is field-replaceable by the end user. When replacing, ensure the exact same relay configuration is used - SPDT, 12VDC coil, 40A rated (Durakool DG56A-7011-76-1012 or a direct equivalent) - to maintain correct operation and rating of the unit.

Build & Lead Time

These units are built to order to match the vessel's specified stop system (open to stop or close to stop) and operate on a standard lead time of 1 month.

Compliance & Certification

This product is supplied with a Declaration of Conformity covering RoHS, REACH, and CE requirements.

Wiring Diagrams

The following diagrams show the relay box connection for single (1RLY) and twin (2RLY) engine installations, for both open-to-stop (OS) and close-to-stop (CS) circuit types.

