

Relay Box

Model Number: THRSLRB1001

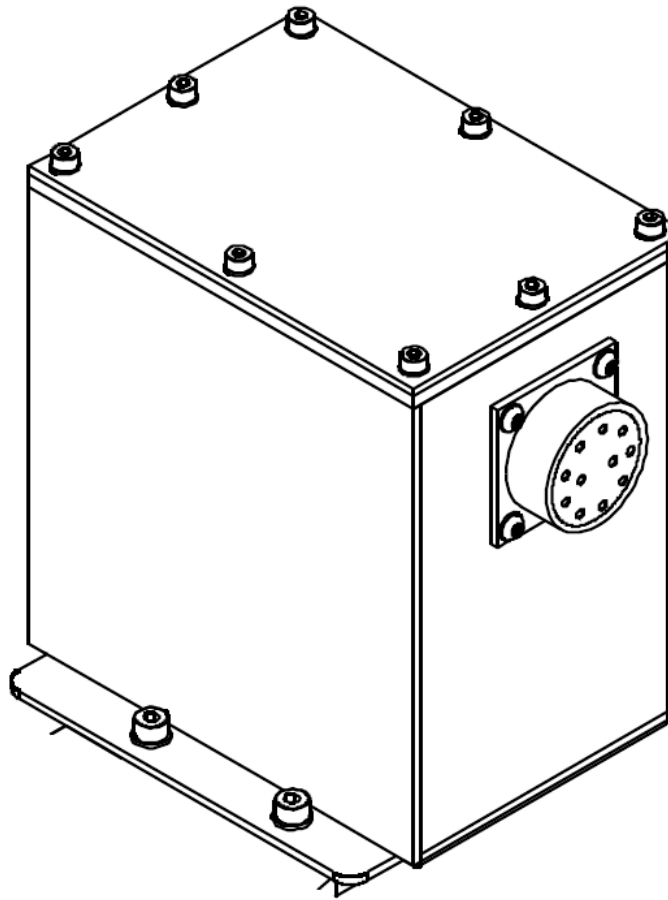
Overview

The **Relay Box** is a standard THRSL product designed for reliable power management and system safety across a wide range of industrial and defense applications. It enables controlled power distribution, integrates multiple emergency shutdown pathways, and ensures operational reliability under harsh conditions.

This module has also been **successfully deployed in the UXOR project supplied to the Indian Air Force (IAF)**, serving as a field-proven example of its rugged performance.

Technical Specifications

Parameter	Specifications
Function	Power distribution and emergency shutdown
Power Supply Inputs	12V DC (control) & 24V DC (operational)
Emergency Stop (E-STOP) Integration	- Hardwired E-STOP (UXOR) - Remote E-STOP (UXOR-CV) - Wireless E-STOP
Interfaces	Main controller & subsystem power lines
Protection Standard	IP65
Operating Temperature	-20°C to +55°C



Key Features

- Standardized module for **plug-and-play integration**
- Dual power line support (12V and 24V DC)
- Multi-interface **E-STOP system** for maximum safety
- Safe startup and controlled shutdown of subsystems
- Rugged construction with **IP65 protection**
- Wide operating temperature range: **-20°C to +55°C**

Applications

- Industrial and robotic power management
- Emergency shutdown systems in automation
- Defense-grade robotic platforms
- UXOR system integration (**field-proven in IAF deployment**)

Note

The **Relay Box** is a part of **THRSL's standard technology suite**, designed for **plug-and-play deployment** across industries. Its proven performance in the **UXOR project for the Indian Air Force (IAF)** further demonstrates its reliability in demanding defense environments.

The product is also **customizable** to meet unique user requirements such as specialized power interfaces or additional safety controls.