

SE850 Hyperbaric Flame Detector



Introduction

The SE850 Hyperbaric Flame Detector is specifically designed to be used within the harsh environment of saturation diving systems and is suitable for depths up to 500 msw. It operates by detecting the ultraviolet radiation emitted by a flame, while not being sensitive to visible light. Detection is signalled by a front-mounted red LED, and by a set of normally-closed relay contacts. The detector is housed within an aluminium pressure housing, which protects the internal electronics from the pressurised environment typically found within a saturation diving chamber.

The SE850 Hyperbaric Flame Detector is type approved for use in saturation diving systems by both Lloyd's Register and DNV-GL.

LR Type Approval Certificate: 17/90004
 DNV-GL Type Approval Certificate: TAA000017X



Order Codes

Hyperbaric Flame Detector
 with 10m cable tail
 SE850

Specification

Working Pressure	50 bar
Depth Rating	500 msw
Dimensions	Length 220 mm by 66 mm Dia.
Weight	1.6 kg
Supply Voltage	24 Vdc (+/- 20%)
Current Consumption	0.1 A
Relay Contacts Max. Load	60 Vdc / 3 A
Operating Temperature	0 - 55 °C
Detection Wavelength	185 to 260 nm
Device Sensitivity	Class 3 (12 m)
Detection Angle	30° from optical centre

Electrical Connections

1	+Vin (power supply positive)
2	-Vin (power supply negative)
3	Not used
4	Not used
5	Not used
6	RC+ (positive terminal of normally closed contacts)
7	RC- (negative terminal of normally closed contacts)