

# Orbis Marine Heat Detector

**L G M**  
**PRODUCTS**



Orbis is a range of modern, stylish detectors packed with practical features that make installation, commissioning and maintenance easy and efficient with new sensing and operating technologies that improve reliability and detection.

Static heat detectors (suffix S) respond only when a fixed temperature has been reached.

Rate of rise detectors (suffix R) respond to a sudden increases in temperature as well as having a fixed upper limit..

## SPECIFICATION

### Electrical

|                                     |  |
|-------------------------------------|--|
| Voltage                             | 8.5 - 33.0 Vdc                           |
| Supply Wiring                       | 2 wire polarity sensitive                |
| Max polarity reversal               | 0.2 secs                                 |
| Power up time                       | <20 seconds                              |
| Switch on surge current @ 24 Vdc    | 120 $\mu$ A                              |
| Average quiescent current at 24 Vdc | 65 $\mu$ A                               |
| Alarm Current at 24 Vdc             | 40mA                                     |
| Alarm reset Voltage                 | <1 Vdc                                   |
| Alarm reset time                    | 1 second                                 |
| Alarm load                          | 600 $\Omega$                             |
| Alarm Indicator                     | LED indicator with<br>360 deg visibility |

### Mechanical

|                        |                                     |
|------------------------|-------------------------------------|
| Detector body material | Polycarbonate                       |
| Base material          | Polycarbonate                       |
| Detector & base colour | White                               |
| Max RH                 | 98% no condensation                 |
| Storage temp deg C     | -40 to +70 deg C                    |
| Operating temp deg C   | -40 to +70 deg C                    |
| Wind Speed             | Unaffected by wind                  |
| IP rating              | 23                                  |
| Detector & base dims   | Diameter 100mm<br>Height 57mm       |
| Detector + base weight | 0.14 Kg net<br>0.25 Kg gross packed |

### Sensitivity (EN54-5)

| Heat<br>Detector type | Typical Static<br>Response $^{\circ}$ C |
|-----------------------|---|
| A1R, A1S, A2S         | 50                                      |
| BR, BS                | 65                                      |
| CR, CS                | 80                                      |

Part Numbers and Approval listings are on page 2

**LGM PRODUCTS LTD**  
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# Orbis Marine

## Heat Detector

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### Orbis Marine heat detectors carry the following marine approvals:

- LR Lloyd's Register of Shipping
- MCA Maritime and Coastguard Agency
- ABS American Bureau of Shipping
- BV Bureau Veritas
- DNV Det Norske Veritas
- GL Germanischer Lloyd

### Accessories and part numbers

|   |                  |
|---|------------------|
| A1R Heat Detector                             | ORB-HT-41001-MAR |
| A2S Heat Detector                             | ORB-HT-41002-MAR |
| BR Heat Detector                              | ORB-HT-41003-MAR |
| BS Heat Detector                              | ORB-HT-41004-MAR |
| CR Heat Detector                              | ORB-HT-41005-MAR |
| CS Heat Detector                              | ORB-HT-41006-MAR |
| Timesaver base                                | ORB-MB-00001-MAR |
| Timesaver relay base                          | ORB-RB-40004-MAR |
| Universal conduit box                         | 45681-204-APO    |
| Backplate                                     | 45681-233APO     |
| Deckhead mounting box aluminium PG19 entries* | 29600-131        |
| Deckhead mounting box aluminium M20 entries*  | 29600-139        |
| Deckhead mounting box plastic PG19 entries    | 29600-196        |
| Deckhead mounting box plastic M20entries*     | MBB-1            |
| Base cover                                    | 45681-380APO     |

\* Data sheet available

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