

# Orbis Marine

## Optical type Smoke Detector

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



Orbis Marine 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.

Orbis has been designed to make installation, commissioning and maintenance fast and simple. Orbis detectors have StartUp, a phase that uses a flashing red LED to confirm that the devices are wired in the correct polarity. Normal operation is resumed automatically after four

minutes. A one second reset switches from normal operation to FasTest®, allowing functional testing with smoke or heat to be done in just 4 seconds.

### 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	20 $\mu$ A
Alarm reset Voltage	<1 Vdc
Alarm reset time	1 second
Alarm load	600 $\Omega$
Alarm Indicator	LED indicator with 360 deg visibility
Sampling Frequency	Every 4 seconds

#### 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 Height 57mm
Detector + base weight*	0.14 Kg net 0.25 Kg gross packed

\*Timesaver base

See page 2 for accessories, approval listings and part numbers

**LGM PRODUCTS LTD**  
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### Orbis Marine optical type smoke 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
- CCS China Classification Society

### Accessories and part numbers

Optical Detector	ORB-OP-42001-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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