

2020

# GUARDIAN SOLO

## CATERING VERSION

### Marine Lone Worker Protection

Information Brochure



C-VIGIL Ltd : marine (CVM)

In  
association  
with

 kvasirgroup

C-VIGIL Ltd : marine (CVM)  
GUARDIAN SYSTEMS





Establishing a healthy and safe working environment for lone workers can be different from organizing the health and safety of other crew members - they should not be put at more risk than other crew working onboard.

It will often be safe to work alone. However, managers should think about and deal with any health and safety risks **before** people are allowed to do so.

One option is to provide these crew members with lone worker protection and emergency calling equipment; thereby improving the chances of a successful outcome should the worst happen.

Protection can be provided for: -

- Engineering Areas
- Catering Areas
- Deck Areas (Portable Units)

***Remember – it's better to have it and not need it, then to need it and not have it!***

## ***Automatic Wireless Lone Worker Protection & Emergency Calling System***

**SOLO**  
Lone Worker Systems

**Ventus**  
Wind Turbines Safety

**SeaVu**  
CCTV Systems

**Klarion**  
Acoustic Area Denial

**ThermoGuard**  
Remote °C monitoring

**Elev8tor**  
Lift Car Indication

## ***Automatic Interval Timer Reset Within the Catering Areas Using PIR Motion Sensors***



SOLO is intended to supplement any existing protection system already in place.

It is often the case that the catering staff - quite often a single person - will find their selves alone in the catering areas / galley for protracted periods i.e. during meal preparations, cooking, washing down...etc.

SOLO is intended to supplement any existing protection systems already in use.

It is often the case that catering workers will find their selves alone in the catering areas – galley, preparation areas, storage, fridges...etc. during their normal duties.

SOLO protects workers whilst in the catering areas by detecting their movements using PIR motion sensors. Detected movement automatically resets the interval timer.

Should a worker remain motionless, through incapacity or otherwise, the interval timer will expire, causing the staged alarms to be triggered.



**Wireless Reset Transmitter & Receiver**

Strategically placed wireless receivers allows for portable on the move interval timer resetting and emergency alerting from anywhere in the catering areas and other designated work spaces

## Staged Alarms

### 1<sup>st</sup> Stage – Pre-alarm

- MCU panel sounder & LED operate intermittently

+ 2 minutes

### 2<sup>nd</sup> Stage – Main Local Alarm

- MCU panel sounder & LED operate constantly
- Bridge Alarm & Indicator operates

+ 3 minutes

### 3<sup>rd</sup> Stage – Engine Room Alarm

- MCU panel sounder & LED operate constantly
- Bridge Alarm & Indicator operates

+5 minutes

- Engine room alarm activated

The interval timer can be reset at any time using the portable wireless key-fob transmitter or using any of the manual reset panels (if fitted). The key-fob transmitters are paired with receivers fitted around the catering areas (number depends on the size of the vessel).

Manual reset buttons (MCU or Manual Reset Panels) and/or key-fob button #1: -

- One short press (< 3 secs) resets the interval timer.
- One long press (> 3 secs) activates a “Call-for-Assistance” this bypasses the interval timer and triggers the staged alarms immediately.

Key-fob button #2: -

- Sounds local alarm for as long as it's pressed.

A 140db portable personal alarm can be provided to help in the location of the injured person.



## Optional Extras

Additional key-fob transmitters

Additional wireless reset/emgy call receivers

Additional manual reset/emgy call PB panels

**Full Turnkey Projects**  
**Bespoke Design, Cabling Installation**  
**Testing & Commissioning**

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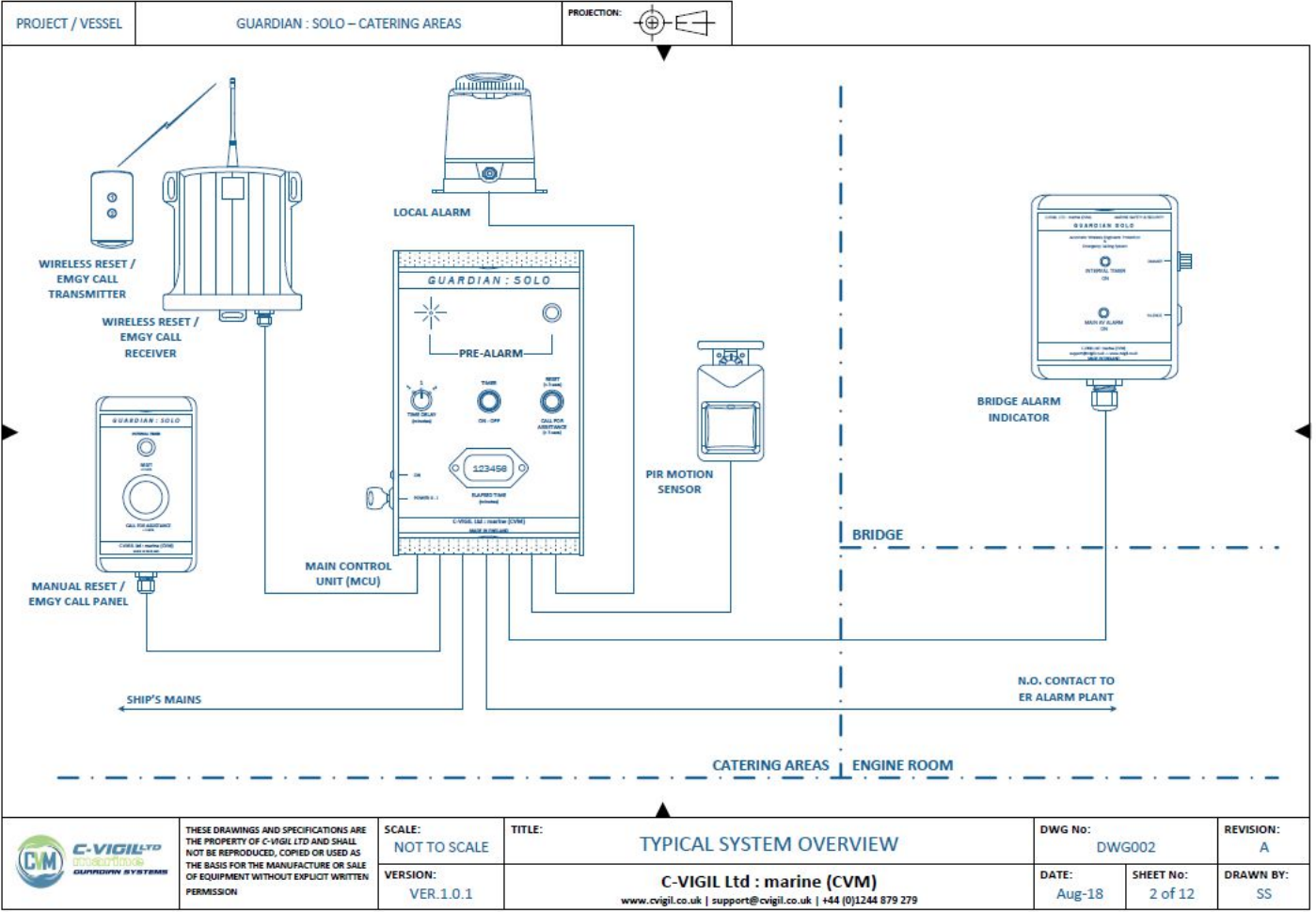
**Klarion**  
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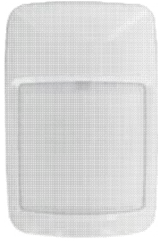


**Elev8tor**  
Lift Car Indication



System Overview



MCU	
	<p>MCU – fitted within the catering area in a position allowing easy access.</p> <p>The MCU contains: -</p> <p><i>Pre-Alarm</i> – flashing blue LED &amp; pulsing 80dB sounder</p> <p><i>Time Period Selector</i> – rotary selector switch</p> <p><i>Reset / Call for Assistance</i> – short press (&lt;3 secs) resets interval period timer. Long press (&gt;3 secs) Call for Assistance</p> <p><i>Timer On – Off</i> – Set / Reset interval timer.</p> <p><i>Elapsed Time Counter</i> – displays how long period timer has been running.</p> <p><i>Power On / Off</i> – switches system on / off</p>
MANUAL RESET/EMGY CALL PUSH BUTTON PANEL	
	<p>Mushroom pushbutton head – for ease of use</p> <p>High intensity LED indicator</p> <p>IP65</p>
PORTABLE WIRELESS RESET/EMGY CALL KEY-FOB TRANSMITTER	
	<p>868MHz license free frequency</p> <p>150m range</p> <p>2 button operations</p> <p>Long battery life (+5 years)</p>
WIRELESS RESET/EMGY CALL RECEIVER	
	<p>868MHz license free operation</p> <p>RS232 serial data communication supported</p> <p>1Km range</p> <p>Many-to-one operation</p> <p>Hard ABS IP68 Case</p>

PIR MOTION DETECTOR	
	<p>15m detection range</p> <p>Dual sensor for increased sensitivity</p> <p>Anti-tamper</p>
LOCAL ALARM SOUNDER/BEACON	
	<p>High output industrial sounder</p> <p>Multi-tone selection</p> <p>100dB @ 1m</p> <p>IP65</p>
BRIDGE ALARM & INDICATOR PANEL	
	<p>Alerts bridge staff to possible situation catering areas</p> <p>Interval timer – on-off LED indication</p> <p>Audible alarm sounder with silence button</p>



***Bespoke systems  
available on  
request***

***-or-***

***Select various  
equipment for  
your specific  
requirements***

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[www.cvigil.co.uk](http://www.cvigil.co.uk)

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