



## Signal Interface (SI)

### Product description:

The Signal Interface is the interface between sensors and switches, external to the CZone system, and the CZone network

### SI features:

#### 6 inputs

- Inputs from traditional switch types being used to control outputs (Negative, Open circuit, 0-35V DC)
- Inputs from switches to trigger alarm i.e. high water float switch (Negative, Open circuit, 0-35V DC)
- LED status indicators for each input
- Tank level senders (compatible with industry standard sender outputs, 0-5V, 10-180 Ohm, 240-330Ohm)
- General voltaic or resistive signals can be used for controlling outputs or to display a physical position ie show a hatch is partially open

#### Inputs

- Network, NMEA 2000

**Dimensions:** H 100mm (3"29/32) x W156mm (6"3/32) x D 42mm (1"5/8)

**Weight:** 281g

#### EMC ratings:

- IEC EN 60945
- IEC EN 61000
- FCC Class B
- ISO 7637 - 1 (12V Passenger cars and light commercial vehicles with nominal 12 V supply voltage - Electrical transient conduction along supply lines only)
- ISO 7637 - 2 (24V Commercial vehicles with nominal 24 V supply voltage - Electrical transient conduction along supply lines only)
- IEC Standards for indirect lighting strikes

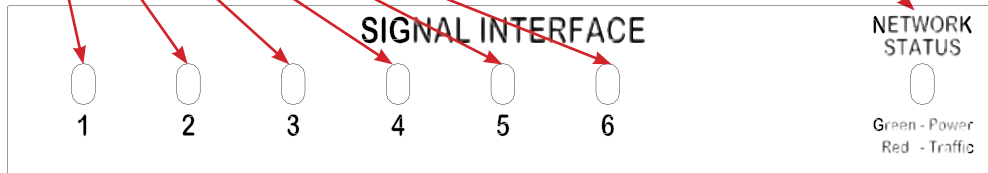




# LED Flash Codes

## Channel status indicators

## Network Status indicator



## Network Status Indicator

- **Extinguished** = Network power disconnected
- **Green** = Network power connected
- **Red** = Network traffic

- Red solid on \*SCI — Output on
- Red slow flash \*SCI — Output in timer mode
- Gn solid on SI/MI — Valid input signal
- 1 x RED SCI/SI/MI — Channel not configured
- 2 x RED SCI/SI/MI — Configuration conflict
- 3 x RED SCI/SI/MI — Dip switch conflict
- 4 x RED SCI/SI/MI — Memory comms failure
- 5 x RED SCI/SI/MI — No modules detected
- 6 x RED SCI/SI — Fault on output
- 7 x RED SCI/SI — Output not detected
- 8 x RED SI/MI — Invalid input signal



# Labelling

## Connections/LED flash code label

This label is located on the inside of the front lid of the unit, it shows the LED codes and electrical connections to the unit

## Module Identification and Dipswitch label

OI	<input type="checkbox"/>	SI	<input type="checkbox"/>	MI	<input type="checkbox"/>	<b>XX</b>									
MOI	<input type="checkbox"/>	SCI	<input type="checkbox"/>	DI	<input type="checkbox"/>										
DIP 1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>		4	<input type="checkbox"/>	5	<input type="checkbox"/>	6	<input type="checkbox"/>	7	<input type="checkbox"/>	8

These labels allow easy identification of each module whilst recording the dipswitch setting. These labels are to be fitted to the cover and to the module (this prevents covers being swapped). To record the module type and dipswitch settings use a permanent marker and strike through the applicable boxes (a strike through on a dipswitch box indicates that switch is on).

LED Codes/Module:	Fault Description:
Red solid on *SCI	Output on
Red slow flash *SCI	Output in timer mode
Gn solid on SI/MI	Valid input signal
1 x RED SCI/SI/MI	Channel not configured
2 x RED SCI/SI/MI	Configuration conflict
3 x RED SCI/SI/MI	Dip switch conflict
4 x RED SCI/SI/MI	Memory comms failure
5 x RED SCI/SI/MI	No modules detected
6 x RED SCI/SI	Fault on output
7 x RED SCI/SI	Output not detected
8 x RED SI/MI	Invalid input signal

\*SCI LEDS are located on SCI control switches

SI 8 Way

DC-	NC	I/P 6	I/P 5	I/P 4	I/P 3	I/P 2	I/P 1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	7	6	5	4	3	2	1

SCI 8 way

1	3	5	7
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	4	6	8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MI 8 Way

DC-	DC V 3 +	DC V 2 +	DC V 1 +	Shunt 2 (L)	Shunt 2 (B)	Shunt 1 (L)	Shunt 1 (B)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	7	6	5	4	3	2	1

MI 6 Way

TXFM common	AC V 3 (TXFM)	AC V 2 (TXFM)	AC I 2 (TXFM)	AC V 1 (TXFM)	AC I 1 (TXFM)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	5	4	3	2	1



# Installation Guidelines

Ensure the modules are installed vertically with the cables exiting downwards

All seals and cable glands must be fitted including blanking plugs inserted in any unused positions.

Ensure all labels are fitted and correct

## Dimensions

