



HAWKER

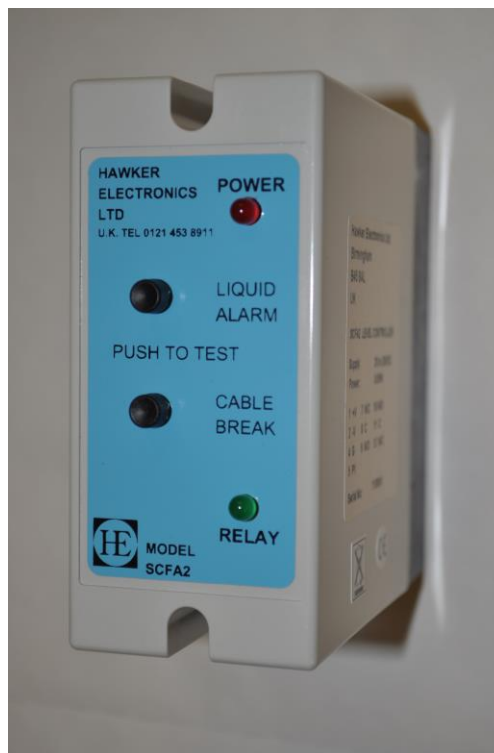
LEVEL CONTROL SYSTEMS

SCFA2

*Pure Water Level Detector
with Cable Break Alarm*

The **SCFA2** is a high sensitivity liquid circuit. The detector is fail-safe high thus providing two volt free set change over contacts that de-energise under liquid present or cable break conditions. A green L.E.D. is included to give visual indication of the relay state and a red L.E.D. indicates power present. In order to utilise the cable break function an end of line resistor (EOL) must be fitted across the electrodes, which is always done at the furthest point i.e. in the holder. DC is used on the electrodes making it suitable for high-level alarm applications. Push buttons are fitted to the enclosure facia, which allow the user to simulate cable break and liquid alarm. The SCFA2 can be used with the extensive range of electrode holders, electrodes and mounting brackets (see data sheets 241, 260 & 282)

The SCFA2 unit is available in three sensitivity ranges, 1M Ω , 2M Ω or 20M Ω . Specify on order.



Supply

Volts 24V DC reverse polarity protected (range 20 to 28V DC)
Current 30mA standby, 17mA alarm
Power 0.7W standby, 0.4W alarm @ 24V DC

Sensitivity

Relay de-energise with liquid approximately < 1M Ω , 2M Ω or 20M Ω , specify on order

Electrode

Volts 12.5V DC max open electrodes with EOL sense resistor fitted
Current <200 μ A
EOL Resistor 330K Ω /1M Ω type, 560K Ω /2M Ω type, 4.7M Ω /20M Ω type, 0.5W, \pm 1%, must be fitted in the electrode holder.

Inputs

NC push switch for cable test, NO push switch for liquid test

Cable Length

Recommended 100m max, Capacitance 500nF max

Output

Relay Energised in normal condition, de-energises under cable Break and liquid alarm condition, DPNO contacts, maximum Switching 5A 250V AC / 30V DC, electrical Ops 1x10⁵, mechanical Ops 1x10⁷

L.E.D.

Red Power ON, Green ON when the relay is energised

Operating Temperature

-20 $^{\circ}$ C to +50 $^{\circ}$ C

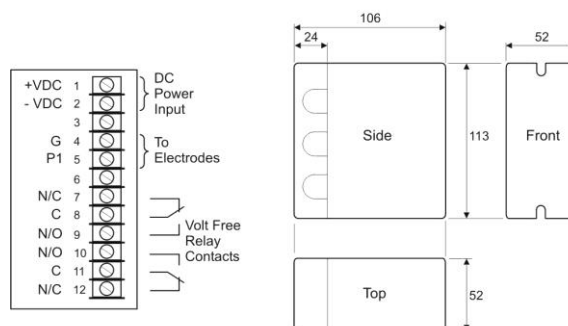
Weight

240g, inc base

Enclosure

IP40, see dimensions above, DIN mounting clip adaptor available separately, base ABS-gf, cover Polystyrol Polystyrene, Intermediate plate ABS

Enclosure and Base Connection Details



Enclosure Base Wiring Connections

1. +VDC Power Supply Input
2. - VDC Power Supply Input
3. Not Used
4. To 'G' Ground Electrode in Vessel
5. To 'P1' Active Electrode in Vessel
6. Not Used
7. Relay Contact 1 N/C (Normally Closed)
8. Relay Contact 1 C (Common)
9. Relay Contact 1 N/O (Normally Open)
10. Relay Contact 2 N/O (Normally Open)
11. Relay Contact 2 C (Common)
12. Relay Contact 2 N/C (Normally Closed)

This product has been designed and complies to the relevant standards as listed in its certificate of conformity. The installer/user must ensure compliance. The crossed out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life. Because of continuing development we reserve the right to change the specifications without notice

HAWKER ELECTRONICS LTD.

57 The Avenue,
Rubery Industrial Estate,
Birmingham B45 9AL, ENGLAND
Telephone: +44 (0)121-453-8911 email: info@hawker-electronics.co.uk
Website: www.hawker-electronics.co.uk



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