LCD Counters and Hour Meters GB

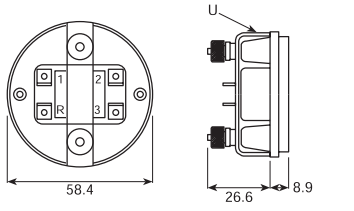
Instruction Leaflet

GB

A range of counters and hour meters in sealed modules (IP65) with a 5mm high, 6-digit LCD display of count or hours run (99999.9 hours maximum). The units are available in 3 panel mounting case designs, commonly used in industry. Availability of units in various forms and supply voltages is listed below:

RS Stock no.	Meter type	Operating Voltage
185-5968	Counter	12-48 VDC
185-6078	Hour Meter	12-48 VDC & 20-60 VAC
185-6012*	Hour Meter	48-150 VDC & 100-230 VAC

①

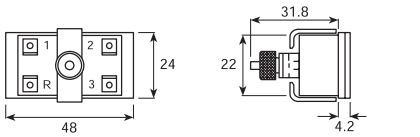


Front Face IP Rating IP65

Panel cut-out 52 dia

RS Stock no.	Meter type	Operating Voltage
185-5946	Counter	5-12 VDC
185-5974	Counter	12-48 VDC
185-6040	Hour Meter	5-12 VDC & 6-12 VAC
185-6084	Hour Meter	12-48 VDC & 20-60 VAC
185-6006*	Hour Meter	12-48 VDC & 20-60 VAC
185-6028*	Hour Meter	48-150 VDC & 100-230 VAC

②

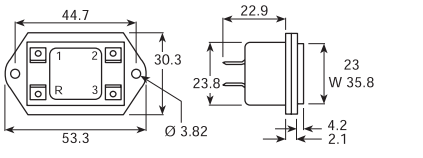


Front Face IP Rating IP52

Panel cut-out 45.2 x 22.4

RS Stock no.	Meter type	Operating Voltage
185-5952	Counter	5-12 VDC
185-5980	Counter	12-48 VDC
185-6056	Hour Meter	5-12 VDC & 6-12 VAC
185-7087	Hour Meter	12-48 VDC & 20-60 VAC
185-6034*	Hour Meter	48-150 VDC & 100-230 VAC

③



Front Face IP Rating IP65

Panel cut-out 36.8 x 24.1

* These items are 2-wire operation (3-wire using reset). All other items are 3-wire operation (4-wire using reset). For wiring diagrams see overleaf.

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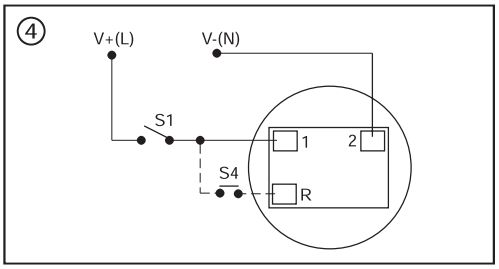
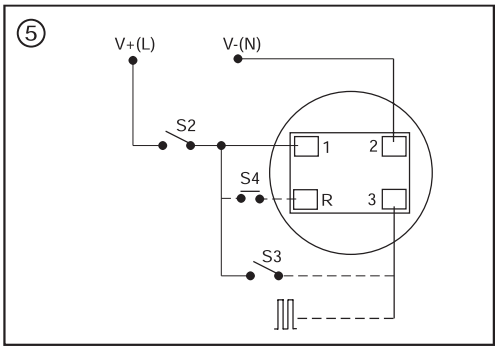
2-Wire Operation

On closure of S1, the liquid crystal display will be active and the unit will simultaneously begin to record elapsed time. On opening S1, the display disappears and elapsed time recording ceases. In this circuit, reset only occurs if S1 and S4 are closed.



3-Wire Operation

In this configuration, S2 will activate the liquid crystal display but the elapsed time, or input pulse, is only recorded when seen at terminal 3, the monitored input terminal. This form of operation permits the display to be permanently 'on' and independent of monitored input.



RESET: To reset the counters or hour meters to zero a voltage, with the range of the individual unit, must be applied to terminal R. A non-latching push button is recommended for this.

Technical Specification

Operating Voltage Nominal	Absolute Voltage
12-48 VDC	9-60 VDC
12-48 VDC 7 20-60 VAC	9-60 VDC & 15-75 VAC
48-150 VDC & 100-230 VAC	36-185 VDC & 75-270 VAC
5-12 VDC	4.5-15 VDC
5-12 VDC & 6-12 VAC	4.5-15 VDC & 5-15 VAC

Current consumption

0.5mA Max @ 5 VDC (5-12 VDC)
0.8A Max @ 12 VDC (12-48 VDC)
1mA Max @ 120 VAC
2mA Max @ 230 VAC

Temperature range:

Operating	-40°C to +85°C	-40°C to +85°C
Storage	-50°C to +90°C	-50°C to +90°C
Relative humidity	90%(non-condensing at 38°C)	
Shock resistance	50g at 11ms	50g at 11ms
Vibration resistance	20g at 10-80Hz	20g at 10-80Hz