



CFM400 Charge Failure Monitor

Genset Controls - Timers - Monitors - Trips - Battery Charging - Spares & Accessories - Custom Products

APPLICATION

Designed to monitor the Battery, the Battery Charger and its AC Supply and to provide an alarm condition in the event of the Charger failing or its AC Supply fuse 'blowing'. Loss of the AC Supply (i.e. mains failure) is not considered a fault condition. An external Fault input is also provided for use with 'Charge Fault' options that are available on most battery chargers, to provide comprehensive Charge Failure monitoring.



OPERATION

The (red) 'Fault' Led will illuminate (relay energised) if:

1. The battery charger's 'Lamp' output (rectified AC) does not rise above a pre-set threshold within approx. 1 second from application of the AC supply.
2. An external (battery -Ve) is connected to Fault Input (term.11)

If the AC to the charger is switched Off (i.e. mains failure) the unit **WILL NOT** indicate a 'Fault' condition!

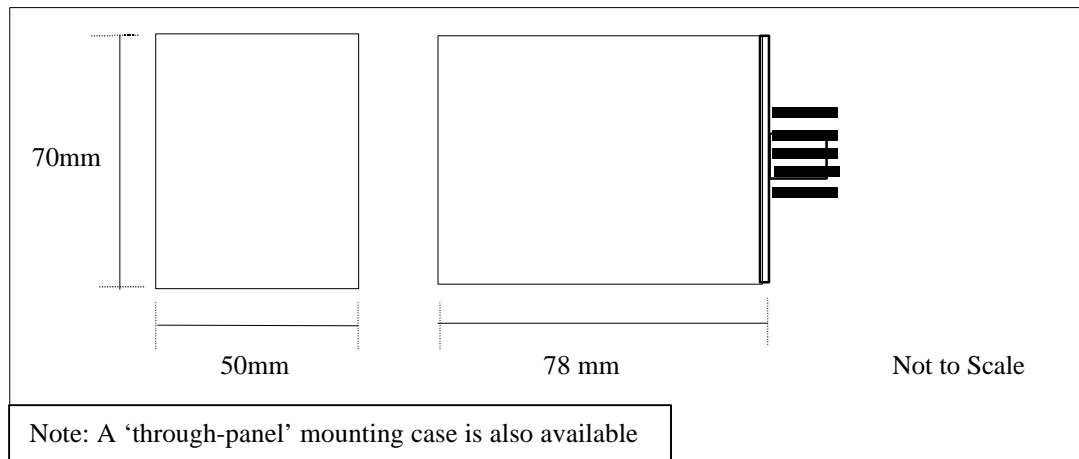
If all is well -- the (green) 'Charging' led will illuminate.

SPECIFICATION

Construction :	Industry standard 11 pin plug-in case Reversed screen-printed "LEXAN" front & side labels. Printed Circuit Boards(s) varnished as standard.
Temperature :	Operating -10 ⁰ C to +55 ⁰ C Storage -25 ⁰ C to +70 ⁰ C
Connections :	Industry standard 11 pin relay base.
Indicators :	Light Emitting Diodes (LED's) : 'Charging' (green) & 'Fault' (red)
Working Range :	9 - 16VDC (12V input) & 18 - 32 VDC (24V input)
Contact Rating :	8 A / 230 VAC (Resistive) de-rate to 14% for inductive loads.
AC Sense :	Threshold approx. 90V (115VAC Systems) Burden: negligible 180V (230VAC Systems) Burden: negligible
Bridge +Ve :	Threshold approx. 1 Volt above battery voltage

Please see our latest Catalogue & Price List for full ordering information and available options

Dimensions



Termination's

- 1 Relay contacts (com)
- 2 115/230VAC
- 3 Relay contacts (n/o)
- 4 Battery +Ve
- 5 External Relay (coil +)
- 6 External Relay (coil -)
- 7 Common -Ve
- 8 Bridge +Ve
- 9 Relay contacts (n/c)
- 10 115/230VAC
- 11 Fault Input

Connect to ----

- Volt-Free (changeover) contact
- Battery Charger AC ('Supply side' of Fuse)
- Volt-Free contact (normally open -- close on fault)
- Control +Ve DC (Fused DC supply)
- (optional) External Relay &/or Lamp (internal 'fly-wheel' diode)
- Battery -Ve
- 'Lamp' Terminal on Battery Charger
- Volt-Free contact (normally closed -- open on fault)
- Battery Charger AC Supply
- Active low.
- Typically used with fault output (options) on BCT, BCM, BCQ & BCF series Chargers & / or other monitoring equipment.

WARNING

Voltages **dangerous to human life** may be present at some of the terminal connections of this unit. Ensure all supplies are ISOLATED before attempting any connection / disconnection.

Note: For a replacement unit, please ensure that the 'Serial Number' of the original is quoted.



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