



ALC404

ALC404 Lighting Tower Controller, suits for both AC and DC light tower set, is used for automation and monitor control systems of single light tower unit (diesel/petrol genset) to achieve not only scheduled start/stop, sunrise and sunset start/stop, manual start/stop as well as start/stop genset via remote input port but also turn on/off the flashlights of the light tower in proper order. It integrates with digitalization, intellectualization and network technologies and enjoys functions including precise data measurement, alarm protection as well as remote control, remote measuring and remote communication.

Product Code : 6050003

Power Supply : DC(8-35)V

Case Dimensions : 135*110*44(mm)

Operating Temp. : (-25~+70)°C

Weight : 0.34kg

COMPLETE DESCRIPTION

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ALC404 Lighting Tower Controller adopts micro-processor technology and combines automation control function with beacon lights control function. It fits with performance including LCD display, selectable Chinese/English languages interface, modular design, compact structure, reliable operation and simple connections, which is very easy to use and convenient to maintain.

PERFORMANCE AND CHARACTERISTICS

1. Based on microprocessor, fitted with 132x64 LCD screen with graphic icons and backlit, selectable Chinese/English languages interface and pushbuttons;
2. Be compatible with both AC and DC light tower sets;
3. Deep sleep function;
4. Reducing the number of the lighting lamps along with the fuel level drops;
5. With lamp fault check function;
6. Starting battery under voltage condition can start gen-set to charge the start battery;
7. Not only suitable for 3P4W, 3P3W, 1P2W, 2P3W(120V/240V) power system with 50Hz/60Hz frequency, but also suitable for DC power supply system;
8. Collect and display parameters including generator/mains 3 phase voltage and current, frequency, and power as below,

Generator

Line voltage: Uab, Ubc, Uca

Phase voltage: Ua, Ub, Uc

Frequency: Hz

Load

Current: Ia, Ib, Ic

Total active power:

Total reactive power:

Total apparent power: SUnit:

Power factor: λ

Accumulated power generated: W

Current accumulated power generated: W

Mains(mains supply is active)

Line voltage: Uab, Ubc, Uca

Phase voltage: Ua, Ub, Uc

Frequency: Hz

Unit: A

PUnit: kW

QUnit: kVar

kVA

Unit: 1

Unit: kWh

Unit: kWh

9. Generator with over voltage, under voltage, over frequency, under frequency, and over current functions; mains with over voltage, under voltage, over frequency and under frequency functions;
10. Detect DC voltage, current, and power while controlling of DC light tower set;
11. Precise collect generator parameters as below,

Temperature(programmable)

°C/°F

Engine oil pressure (programmable)

kPa/Bar/Psi

Fuel level (programmable)

% Fuel left L

Engine speed

r/min(RPM)

Starter battery voltage

V

D+ voltage of charger

V

Accumulated start times
Accumulated running time
Currently running time

12. Precise real-time clock and real-time calendar functions allow scheduled start/stop (every day, every week, every month and custom week), sunrise and sunset start/stop light tower set; moreover, scheduled start time, running duration time, sunrise time and sunset time can be set by users as users' wish;
13. Remote start/stop function;
14. Manual start/stop control of light tower set and manual on/off control of lighting lamps;
15. Standard USB communication port makes it easier to communicate with PC and faster to configure parameters; network monitoring can be achieved via USB port;
16. CANBUS interface can connect with J1939 EFI engine, which can not only monitor the normal data of EFI engine (like water temp., oil pressure, speed, and fuel consumption), but also control gen-set start/stop and rise/drop speed via CANBUS port.
17. Mains can supply power for controller lighting lamps or manual on/off control of lighting lamps.
18. Gen-set running accumulation and output energy accumulation functions convenient for users to regular maintenance and fuel consumption statistics;
19. Scheduled start time and various delays can be set on the spot and also comes with password protection in case of laypeople disoperation.
20. ALC404 controller can control up to 4 lamps and 4 feedback indicators were be fitted on the panel. In addition, the turn on interval time between two lights can be set by users.
21. 99 pieces of event logs can be circularly stored and inquired on the spot; also can be print or be inquired via PC.
22. More kinds of curves of temperature, oil pressure, fuel level can be used directly and users can select "User Configured" sensor curves for unknown engine sensor ;
23. Widely power supply range DC(8~35)V, suitable to different starting battery voltage environment;
24. Modular design, pluggable terminal, built-in mounting, compact structure with easy installation;

Application

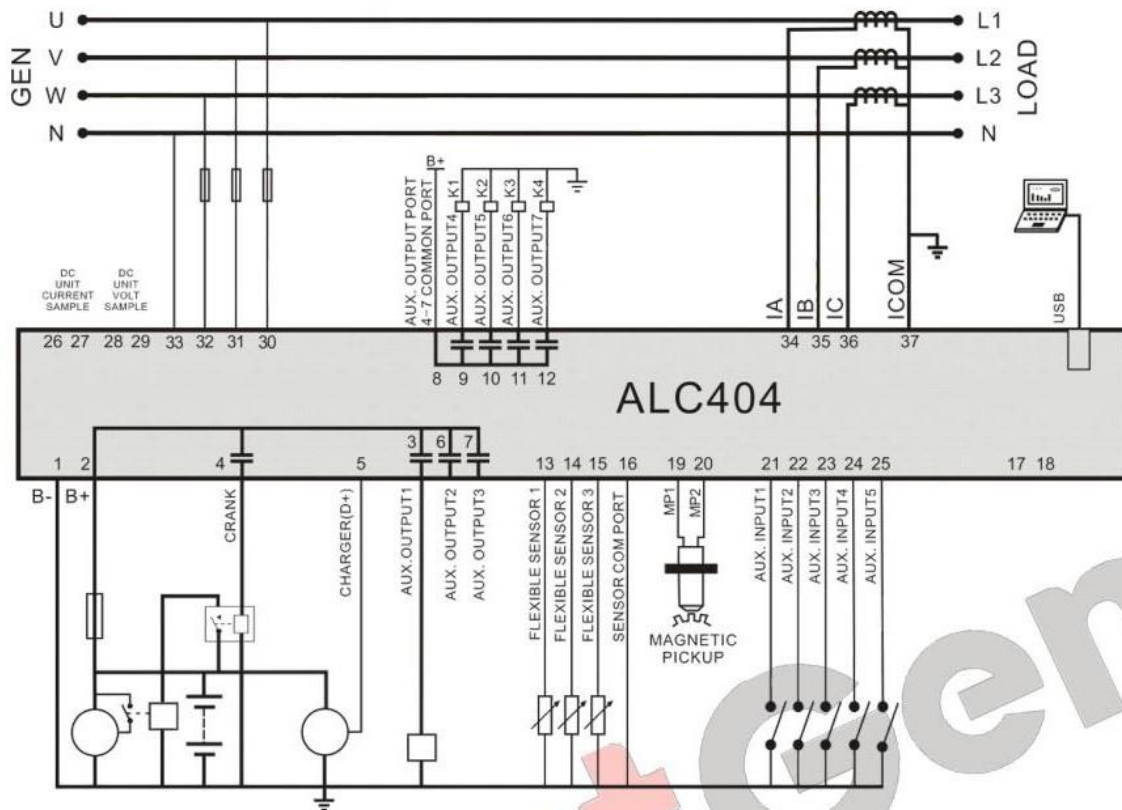


Fig. 4 – ALC404 Controls AC Non-EFI Engine Set Application (3P4W)

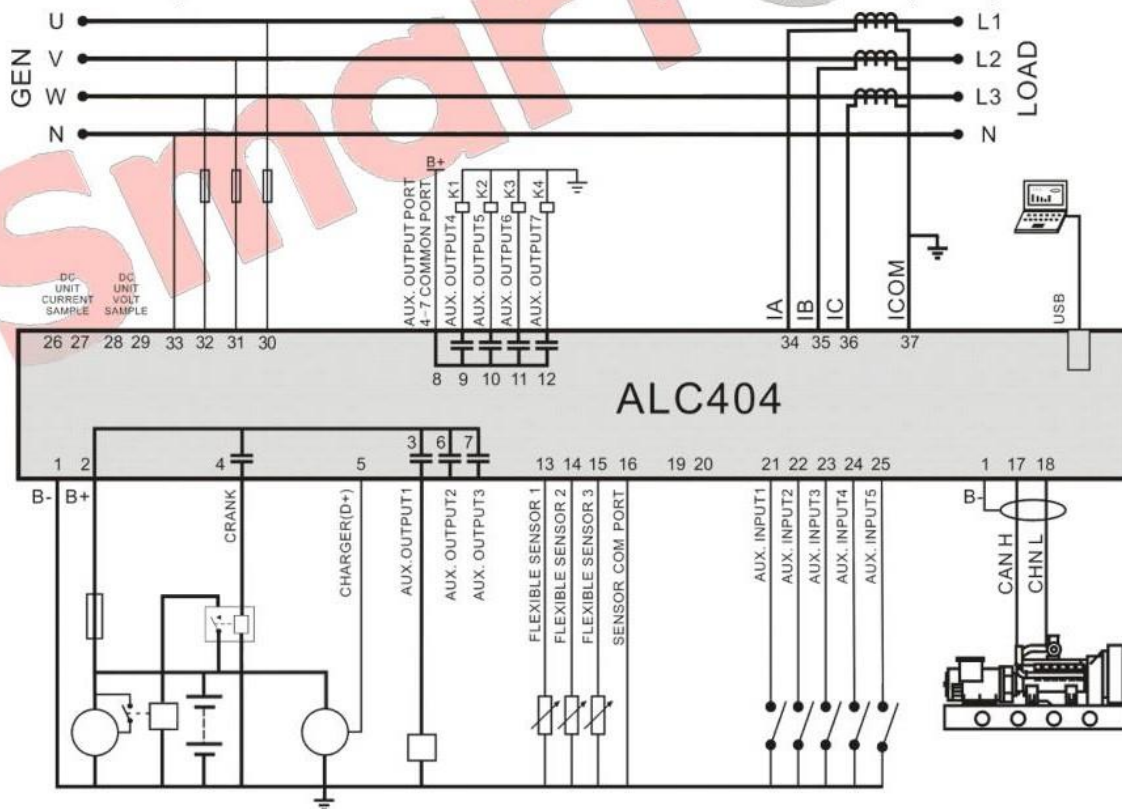


Fig. 5 – ALC404 Controls AC EFI Engine Set Application (3P4W)