

718-40

CHELTON

DF Controllers

The 718-40 Controller Series provides the dedicated control and display interface for Cobham Antenna Systems Type 938 Series Direction Finders (DF).

The unit provides the controls to select the operating mode and frequency, and displays the received signal strength, relative bearing information, age, and digital data as decoded from receivers dedicated to the COSPAS-SARSAT frequency and the Marine DSC Channel.

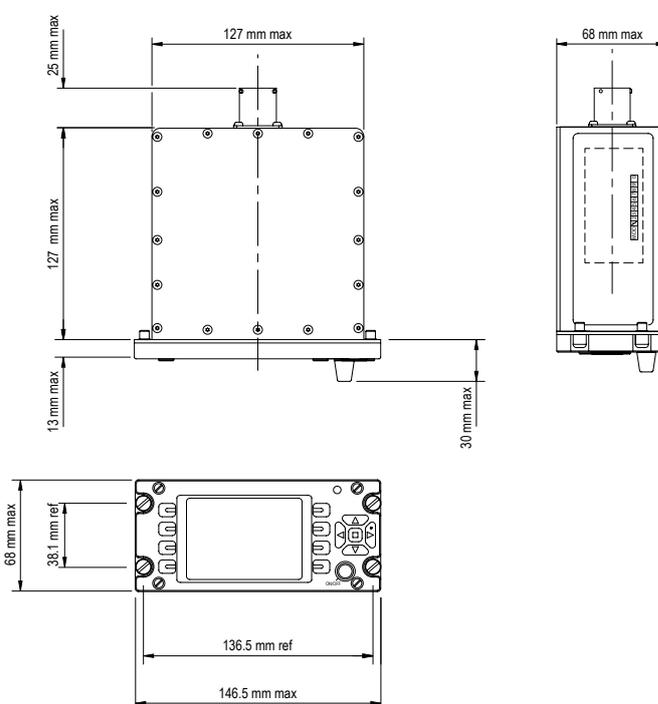
The amber, monochromatic, electroluminescent screen has a viewable area of approximately 160 pixels x 120 pixels (62.3 mm x 46.7 mm).

An integral filter enables its use in Night Vision Goggle (NVG) applications. Green backlighting of the selector switch legend is provided via the aircraft instrument panel lighting bus.

The front panel offers a rotary selector switch with built-in ON/OFF push button, eight menu-allocated 'soft' keys and a navigation array of five keys.

The Dzus rail mounted controller housing is constructed from a single cavity aluminium box with a top fitted lid and a front mounted, control and display panel.

The 718-40 Series includes variants designed to interface with the variants of the 938 Series DFs. Variants are described via numeric suffixes to the Type number.



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ELECTRICAL

Operating Voltage	28 V dc (nominal) (16 V to 32 V)
Input Current	500 mA (maximum) (18 V to 32 V operational)
Panel Dimming Input Voltage	Both 0 V to 28 V dc and 0 V to 5 V dc supported
Panel Dimming Input Current	60 mA (maximum) (aircraft light bus, isolated)
Power Consumption	Main Supply: 7 W (maximum) Light Bus: 1.5 W (maximum)
Connectors	PVXTOW14-19U{N}

MECHANICAL

Dimensions (LxWxH)	68 x 146.5 x 157 mm (maximum)
Weight	0.92 kg (maximum)
Display Active Area	160 pixels x 120 pixels (62.3 mm x 46.7 mm)

ENVIRONMENTAL

Temperature and Altitude	RTCA DO-160C, Section 4, Category B1 modified Operational: -20°C to +55°C Short Time: +70°C Ground Survival: -40°C to +85°C
Altitude	Altitude: 7,620 m
Temperature Variation	RTCA DO-160C, Section 5, Category B
Shock	RTCA DO-160C, Section 7, Category B
Vibration	RTCA DO-160C, Section 8, Categories B,M,N
Explosion Proofness	RTCA DO-160C, Section 4, Category B
Waterproofness	RTCA DO-160C, Section 10, Category W (front panel only)
Fluids Susceptibility	RTCA DO-160C, Section 11, Category X
Sand and Dust	RTCA DO-160C, Section 12, Category X
Fungus Resistance	RTCA DO-160C, Section 13, Category X
Salt Spray	RTCA DO-160C, Section 14, Category X
Magnetic Effect	RTCA DO-160C, Section 15, Zone Z
Voltage Spike	RTCA DO-160G, Sect 17, Cat B
AF Conducted Susceptibility - Power Inputs	RTCA DO-160G, Sect 18, Cat B
Induced Signal Susceptibility	RTCA DO-160G, Sect 19, Cat AC
RF Susceptibility (Radiated, Conducted)	RTCA DO-160G, Sect 20, Cat S
Emission of RF	RTCA DO-160G, Sect 21, Cat B

