Part No DBA12630

Applications

Provides a highly visible indication / safety assurance of the condition of interlocks being monitored. Typically used as a Brake Interlock Monitoring System indicating which interlocked item is correctly or incorrectly stowed.

Features

- Ten large, high-intensity LED's are used to indicate Interlock status (dual colour LED'S to ensure a failed LED can not cause the true state of a circuit not to be shown)
- Current is limited to intrinsically safe levels so no sparking can occur.
- Permits the operator to quickly identify incorrectly stowed equipment
- Allows the operator to check the operation of the switches while several of the couplings etc. are removed from their stowage's.
- Can be retrofitted to vehicles fitted with electrically actuated brake interlock systems.

Options

- Retrofit version for vehicles where a Fluid Transfer Current Limiting Relay is installed.
- A 24v relay version.
- A 12v relay version.

Specification

The Fluid Transfer Interlock Monitor individually monitors up to ten interlock switches or circuits and provides a highly visible indication of the condition of each, thus providing additional safety assurance.

The unit has been designed to replace the simple series circuit typically used for vehicle brake interlock systems. These series circuits are susceptible to faulty switches sticking in the closed (stowed) position and masking the operation of the other switches. Whilst this fault remains undetected a potentially dangerous situation exists with the equipment effectively not being interlocked to the vehicle brakes.

The Fluid Transfer Interlock Monitor incorporates ten large, high intensity LED's that inform the operator which interlocks are open. This reduces the time taken to identify incorrectly stowed equipment and allows the operator to check the operation of the switches while several of the couplings etc. are removed from their respective stowage's. Interlock checks can then be performed during the normal refuelling operations on an ad-hoc basis or as part of the fuelling procedure. The time taken to perform interlock checks is greatly reduced as a result of this ability to check several switches simultaneously.

Interlock Monitor

Part No DBA12630

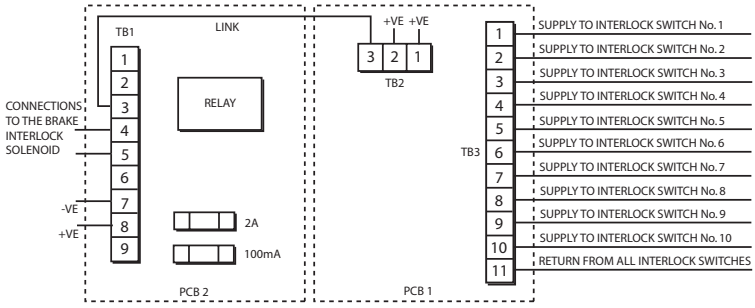
Technical Data

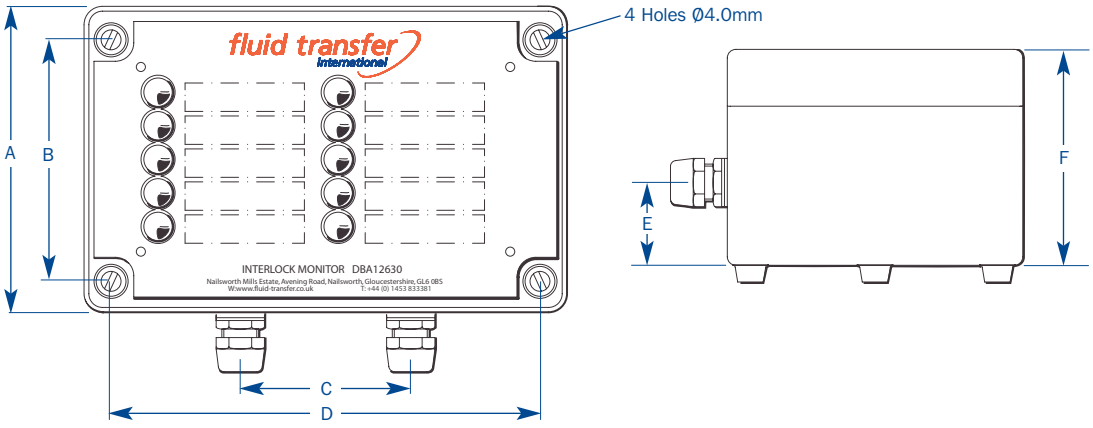
The Fluid Transfer Interlock Monitor incorporates ten large, high intensity LED's that inform the operator which interlocks are open. The Interlock Monitor separates the interlock system into ten parallel circuits, each circuit being electronically monitored. When the circuits are 'opened', (equipment removed from stowage) the unit changes the colour of the circuit LED from green to red. The unit ensures that the vehicle brakes are applied until all switches are 'closed' (equipment correctly stowed).

The current in the interlock circuits is limited to intrinsically safe levels such that no sparking can occur if a wiring fault develops. The use of dual colour LED's eliminates the possibility of the true state of a circuit not being shown due to a failed LED or lamp.

The unit can be easily retrofitted to vehicles that are fitted with electrically actuated brake interlock systems using interlock switches which are 'closed' when the equipment is stowed and which have been wired through a central junction box. The links in the junction box are removed to make the circuits parallel, a multi-core cable is installed between the junction box and the cab where the monitor box is mounted in view of the driver. The interlock monitor is then linked to the relay controlling the solenoid valve in the brake line.

Electrical Circuit





Dimensions

Part No.	A	B	C	D	E	F	Weight
DBA 12630	110	95	180	165	35	91	600g

All dimensions in (mm)

Options

Part No.	Item	Variant
DBA12630	Interlock monitor	Standard 24v Relay
DBA12630-1	Interlock monitor	12v Relay Version

Maintenance

No special maintenance is required only replacement of fuses in the event of unforeseen current surges.