

FUEL CAP ISOLATION SYSTEM



FUEL CAP ISOLATION SYSTEM

7811



**FUEL CAP ISOLATION SYSTEM,
DUAL FUEL CAP**

10136

Purpose & Benefits

The Muirhead® Fuel Cap Isolation systems are designed to prevent heavy equipment operators from starting the machine and driving away while the fuel filling nozzle is attached to the mobile equipment.

This will eliminate damage to mobile equipment, refuelling stations, fuelling hoses and also prevent flammable fuel spills.

The Muirhead® Fuel Cap Isolation systems have an intrinsically safe circuit design with supporting safety certification for the fuel cap component to be fitted in Zone 0 hazardous areas and the control unit to be fitted in Zone 2 hazardous areas. Refer to drawing 357k for further information.

Equipment Type

All heavy mobile equipment with Wiggins style fuel receivers.

Target Customer

All operators of heavy mobile equipment concerned with unintentional drive-offs while fuelling, especially those sites where equipment operators fuel their own machinery.

Functionality

The 12-24V Fuel Cap Isolation system is comprised of a control unit which monitors the input signals from the kit's specially designed replacement fuel cap and an LED warning light.

The system is installed such that the control unit isolates the ignition switch and illuminates the warning light when the fuel cap is not securely in place. This prevents the machine from being started and driven off if the fuel cap is not replaced after fuelling.

The fuel cap isolation system incorporates a stay up regulator to ensure the system will continue to function as normal, even when the machines battery has degraded due to age and no longer maintains correct voltage during crank.

An alternate installation of the Fuel Cap Isolation system adds control of the ignition circuit through an interlock park brake pressure switch. During operation, if the fuel cap is removed or becomes dislodged during operation, the 'fuelcap removed' LED will illuminate and remain this way until the cap is refitted. The machine will continue to operate until the park brake is applied. At this time the engine will shutdown.

Engine shutdown only occurs when the park brake is applied to allow the operator to move the vehicle to a safe location in order to refit the fuel cap back onto the fill point. Once the fuel cap has been refitted, the "fuel cap removed" LED will then turn off, the start circuit will become active, and the operator will be able to start the engine.

The Muirhead® Fuel Cap Isolator systems have a fail-safe design which triggers the alarm in the event of fuel cap sensor failure or an open circuit in the signal wire.

All Muirhead® products are built to the rigid standards required for the demanding 24/7 operations of the mining industry. The Fuel Cap Isolation systems have proven themselves reliable in hundreds of applications both in underground mining and all types of surface mobile equipment.

Variations

An alternative kit (part no. 10136) includes an additional fuel cap and a specialised control unit for dual fuel tank applications.

ADDITIONAL DOCUMENTS

PRODUCT ONLINE

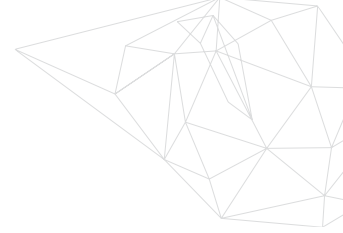


CUSTOMER DATASHEET



MANUAL





PRODUCT OUTLINE SHEET

FUEL CAP ISOLATION SYSTEM

APN	HEAVY DUTY	SELF-TEST MODE	# OF FUEL CAP SENSOR	LED RED WARNING LIGHT & LABEL	PARK BRAKE INTERLOCK WIRING	STAY-UP REGULATOR #11753
7811	Y	Y	1	Y	Optional	Y
10136	Y	Y	2	Y	Optional	Y

Key Features

- ▶ Intrinsically safe circuit design
- ▶ High quality connectors and wiring components
- ▶ Ruggedised components for long life
- ▶ Water and vibration resistant
- ▶ Safety certificate for the fuel cap (inductive sensor) to be used in a Zone 0 hazardous area
- ▶ Helps prevent damage to the refuelling station
- ▶ Reduces refuelling accidents
- ▶ Reduces contaminants entering tank
- ▶ Maintenance free operation
- ▶ Easy to install
- ▶ In dash visual indication via a flashing LED
- ▶ Fail-safe sensing circuit
- ▶ Simple design
- ▶ Customisable circuitry
- ▶ Prevents unattended machine run away accidents
- ▶ Protects personnel working on & near machine
- ▶ Enforces safe operating practices
- ▶ Simple and automatic operation

Parts List

PARTS LIST – QUANTITY SUPPLIED

PART #	DESCRIPTION	7811	10136
7808	CONTROL UNIT, SINGLE FUEL TANK	1	0
10133	CONTROL UNIT, DUAL FUEL TANK	0	1
7809	FUEL CAP	1	2
3644	LED, RED FLASHING WITH LABEL	1	1
7714	LABEL, FUEL CAP ISOLATION	1	1

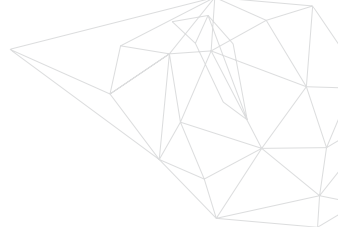
Quoting & Pricing

Fuel Cap Isolation system pricing in the Price List will include all of the components listed above in the Parts List.

Spare or replacement parts can be ordered via the APT part numbers in the Parts List.

Additional Document

Item	Description	Document Number/Title
1	Datasheet	SBMH0909073-Fuel-Cap-Isolation-System
2	Product Manual	M0438
3	Product Update 193	PU0193 (Stay up Regulator- March 27, 2014)



PRODUCT OUTLINE SHEET

FUEL CAP ISOLATION SYSTEM

Related Images

