

FATIGUE WARNING


RANDOM TIME FATIGUE WARNING KIT
 14737

FIXED TIME FATIGUE WARNING KIT
 9055

Purpose & Benefits

Fatigue is a major safety issue when operating large mining equipment. The Muirhead® Fatigue Warning Kit is a unique product that has been designed to monitor the operator's level of awareness by requesting a response to alerts generated.

The unique technology will sense the reaction time from operators and will set the request time for a reaction to an alert based on their response. The greater the time taken for the operator to respond to a warning, the shorter the request time. This ensures the operator maintains a high level of awareness when operating equipment.

The system also includes a 'night mode' function. Fatigue is more prevalent when working in darkened areas so the system is designed to request a response at shorter random intervals during this period. The system can sense when the headlamps are turned on and automatically adjust the timers when the machine is working underground or during night shifts where light is limited.

If the system senses the operator is fatigued, it will activate appropriate alarms and warning devices. This is to provide a warning that the operator of the machine is fatigued and could possibly be putting themselves and other personnel in danger. Damage to machinery and surrounding equipment could also be imminent.

The system can also include an external operator warning notification, which alerts personnel in the area that the operator has shown signs of fatigue.

Equipment Type

All mobile equipment that requires a Fatigue Warning system to combat operator fatigue.

Target Customer

All operators of heavy mobile equipment concerned with managing operator fatigue within equipment such as haul trucks, graders, dozers, fuel trucks and water trucks. Sites where workers are often working in the dark (e.g. underground or night shifts) will see good use of this product.

Functionality

The system becomes active as soon as the ignition is switched on. The warning indicator will switch on after three minutes providing a visual indication to the operator that a response is required that involves toggling a reset switch.

This operation must be performed within a set time period to prevent more aggressive warnings. If the device has requested a reset and the operator does not respond within 16 seconds, the warning alarm output will trigger and the visual indicator will begin to flash. If after another 14 seconds the operator still has not responded, the status/strobe output will trigger.

The warning alarm should be located in the cabin. Its function is to alert the operator to the fact that they have shown signs of fatigue. The status strobe should be located outside the machine in view of other operators and personnel. Its function is to alert other personnel that the operator has shown signs of fatigue. Once this output has been triggered, it will remain on until the power is cycled to the device.

APN	HEAVY DUTY	INSTALL MANUAL	IP65 CONTROLLER	LED RED WARNING LIGHT & LABEL
14737	Y	Y	Y	Y
9055	Y	Y	Y	Y

Variations

A random or fixed timer kit can be supplied. The fixed time version will follow a fixed pattern when prompting the operator and the random time version will adjust its pattern depending on how fast the operator responds.

The system can also include an external operator warning notification, which alerts personnel in the area that the operator has shown signs of fatigue.

ADDITIONAL DOCUMENTS

PRODUCT ONLINE



CUSTOMER DATASHEET

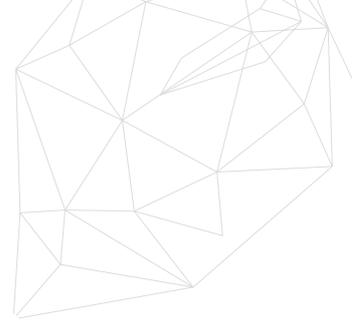


MANUAL



PRODUCT OUTLINE SHEET

FATIGUE WARNING



Key Features

- ▶ Audible and visual warnings
- ▶ Multi-voltage 12 – 32 volts DC
- ▶ Environmentally sealed – IP65
- ▶ Compact and robust design
- ▶ Two stage warning
- ▶ No ongoing maintenance
- ▶ Solid state technology
- ▶ Simple design
- ▶ Enforces safe operating practices
- ▶ Simple and automatic operation
- ▶ User friendly
- ▶ Warns personnel working near machine through external warning

Parts List

PARTS LIST – QUANTITY SUPPLIED

PART #	DESCRIPTION	14737	9055
14736	CONTROLLER RANDOM TIME	1	-
8979	CONTROLLER FIXED TIME	-	1
2058	SWITCH	1	1
0821	TERMINAL F/SPADE BLUE	2	2
0824	TERMINAL BLUE 4.2 MM HOLE	1	1
1723	SONAR	1	1
11109	LED M/V RED 2T FLASHING	1	1
8998	SYSTEM LABEL	1	1
3214	COVER RED TOGGLE SWITCH	1	1
9655	SONAR MOUNT	1	1

Quoting & Pricing

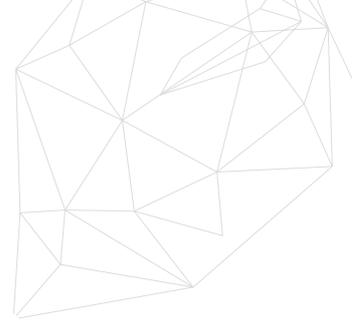
Fatigue kit pricing in Price List will include all of the components listed above in the Parts List. Spare or replacement parts can be ordered via the part numbers in the Parts List.

Additional Documents

ITEM	DESCRIPTION	DOCUMENT NUMBER/TITLE
1	Datasheets	SBMH1012083-Fatigue-Warning-Kits
2	Product Manuals	M0455 M1122

PRODUCT OUTLINE SHEET

FATIGUE WARNING



Related Images

