

# ADJUSTABLE INCLINE WARNING CONTROLLER



## **ADJUSTABLE INCLINE WARNING CONTROLLER** 6119

### **Purpose & Benefits**

When operating on inclines, operators need to know when they are approaching a dangerous incline angle that could cause a machine roll over.

The Muirhead® Adjustable Incline Warning Controller has been designed as a safety device to alert operators if the mobile plant they are controlling has reached a pre-set angle that may be unsafe for continued operation.

An audible alert will notify the operator that they will need to reduce their operating incline.

The system has two stages of warning with an option of two additional outputs

### **Equipment Type**

All heavy mobile equipment which operate in dangerous incline areas.

### **Target Customer**

All operators of heavy mobile equipment that require a device to inform them of pending risks associated with operating in dangerous incline environments. Equipment such as drill rigs, haul trucks, graders, dozers, fuel trucks and water trucks.

### **Functionality**

The Muirhead® Adjustable Incline Warning Controller operates with two stages of warning with an optional two additional outputs.

#### **1st Stage**

During normal machine operation the controller continuously senses the angle at which the machine is operating. If at any point during operation the machine is inclined at 10°, the 1st stage warning (output 1) will activate the visual warning LED on the instrument panel.

The optional audible alarm (if connected to output 1) will activate with the visual warning LED. The stage 1 warning will reset only after the controller senses that the incline of the machine has receded below its trip point deeming the machine safe for continued operation.

The first stage warning is set to 10° (factory default) and is adjustable from 1° to 45°.

#### **2nd Stage (Output 1)**

When the angle exceeds the pre-programmed 2nd Stage warning level of 13° (factory default), the audible alarm (output 1) will pulse at a rate of 2 Hz and the optional output 2 will be triggered to active high.

At this stage, if output 3 has been chosen as the preferred warning output, the time delay will start counting down and after 20 seconds will be triggered to active high. The second stage warning is set to 13° (factory default) and is adjustable from 1° to 45°.

#### **Audible Alarm Warning (Optional)**

An audible alarm can be connected in parallel with the visual warning LED and will activate in a similar way. When the mobile plant has reached an angle of 10° (1st stage warning) the system activates the alarm and holds the alarm on constant.

When it senses 13° (2nd stage warning) the alarm will pulse.

#### **2nd Stage Output (Output 2) (Optional)**

The optional output 2 is a positive output when switched as the 2nd stage trip point is exceeded. This output could be used as a return to idle signal or energise to stop solenoid, or similar.

#### **2nd Stage Time Delay Output (Output 3) (Optional)**

The time delay output operates in conjunction with the 2nd stage alarm. When the 2nd stage warning has triggered at 13° degrees, the timed delay output (output 3) will activate the timeout sequence.

Default settings will provide a positive output after a 20-second delay. This is to provide the operator enough time to move the machine to a safe area before it shuts down. The time delay is adjustable in 10 second increments between 0 to 150 seconds

#### **ADDITIONAL DOCUMENTS**

PRODUCT ONLINE



CUSTOMER DATASHEET

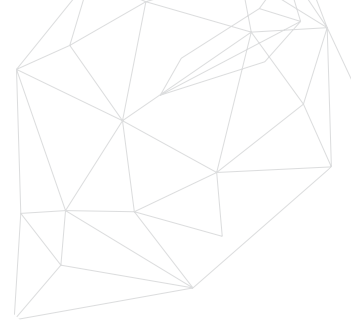


MANUAL



# PRODUCT OUTLINE SHEET

## ADJUSTABLE INCLINE WARNING CONTROLLER



APN	HEAVY DUTY	MULTIPLE OUTPUT	TIMED DELAY OUTPUT	IP66 CONTROLLER	BUZZER WARNING	ADJUSTABLE ANGLE SENSE
6119	Y	Y	Y	Y	Y	Y

### Variations

The system has two stages of warning with an option of two additional outputs.

### Key Features

- ▶ Simple to install
- ▶ Audible and visual warning
- ▶ Configurable warning periods.
- ▶ Compatible with energised to run and energised-to-stop machines
- ▶ Solid state

### Parts List

PARTS LIST – QUANTITY SUPPLIED

PART #	DESCRIPTION	6119
2095	CONTACT PIN # 16 (FVT)(3MM)	5
2076	CONTACT SOCKET # 16 (FVT)(3MM)	5
2118	BLOCKING CONTACT # 16	2
0320	CABLE KROFLEX 1MM X 5 CORE	0.8
0813	GLAND METAL PG9 4-8MM	1
7501	ENCLOSURE ALLOY 80X75X57MM	1
6190	LEXAN T/S MH-SATS-C	1
7994	MOUNT T/S 6119	1
2180	CONNECTOR RECEPTACLE 6 PIN	1
2014	CONNECTOR PLUG 6 SOCKET	1
12248	SCREW M4*25MM PAN/XR G304/A2	2
9749	WASHER M4 FLAT G304/A2	4
6069	NUT M4 HEXAGON G308	2
9750	NUT M4 NYLON LOCKING G304/A2	2
9751	WASHER M4 SPRING G304/A2	2
6565	CONTROL TILT DUAL AXIS ADJ	1
1952	LOCK WEDGE 6 PIN	1
1951	LOCK WEDGE 6 SOCKET	1

### Quoting & Pricing

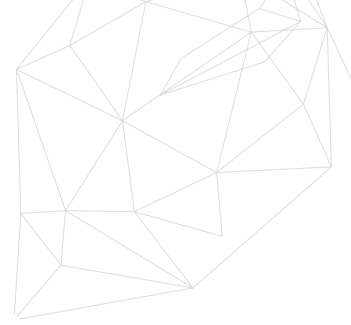
Incline Controller Adjustable Kit pricing in Price List will include all of the components listed above in the Parts List. Spare or replacement parts can be ordered via the part numbers in the Parts List.

### Additional Documents

ITEM	DESCRIPTION	DOCUMENT NUMBER/TITLE
1	Datasheet	<a href="#">SBMH1013091-Adjustable-Incline-Warning-Controller</a>
2	Product Manual	<a href="#">M0295</a>

# PRODUCT OUTLINE SHEET

## ADJUSTABLE INCLINE WARNING CONTROLLER



### Related Images

