



8801 TILT INDICATOR INSTRUCTION MANUAL

MAN-1112 Rev C



Management
System
ISO 9001:2008

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MODEL 8801 TILT INDICATOR INSTRUCTIONS

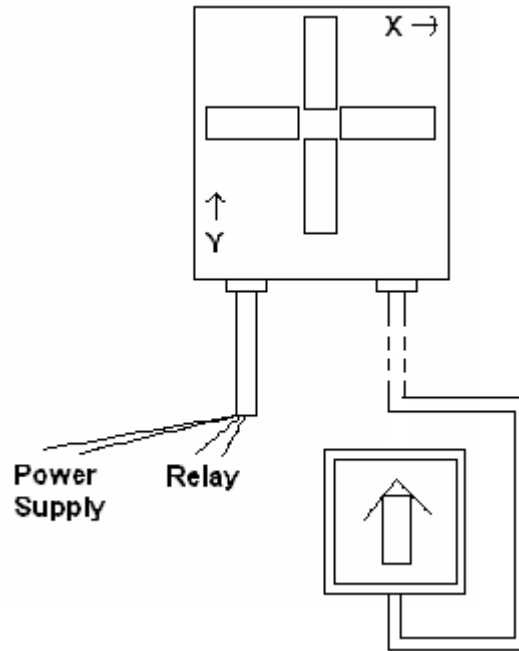
POWER

Power range can be from +7V to +40V.
Nominal +12V or +24V

ORIENTATION

Orient Display and Sensor according to figure.

- If down X+ of the Sensor,
X+ bar of the Indicator will increase.
- If down X- of the Sensor,
X- bar of the Indicator will increase.
- If down Y+ of the Sensor,
Y+ bar of the Indicator will increase.
- If down Y- of the Sensor,
Y- bar of the Indicator will increase.



WIRING

TB1 Connector (To Sensor)

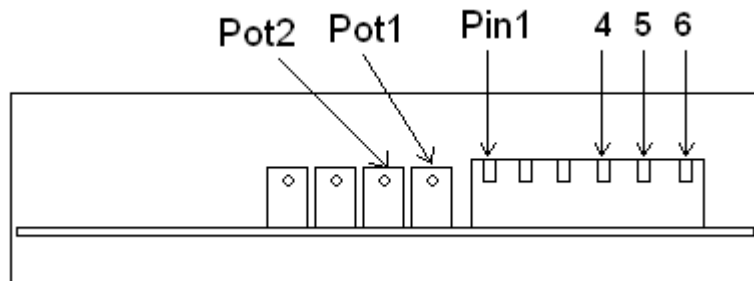
Name	Pin	Function	Colour
GND	1	Ground	Blue
+9V	2	Power Supply	Red
IN_X	3	Relay Switch 1	Yellow
IN_Y	4	Relay Switch 2	Green

TB2 Connector (To Power Supply)

Name	Pin	Function	Colour
GND	1	Ground	Blue
PWR	2	Power Supply	Red
RL1	3	Relay Switch 1	Yellow
RL2	4	Relay Switch 2	Green

ADJUSTMENT METHOD

Remove the top cap to expose the DIP switch and 4 adjustment pots.



Pin1: Buzzer control
 Bottom position: Louder
 Top position: small voice

Pin4: Calibration Mode
 Bottom position: Calibration Mode Top position: Normal mode

Pin5: Range selection X
 Bottom position: ± 5 degree Top position: ± 10 degree

Pin6: Range selection Y
 Bottom position: ± 5 degree Top position: ± 10 degree

Pot1: Vertical direction adjust pot
Pot2: Horizontal direction offset adjust pot

BUTTON

There are two functions for this button. One is mute function and the other is the disable function:

Mute function: Press the button for about 0.5 second, the mute led will be on and the buzzer will stop working even if it is out of range. This state can be cancelled by pressing the button again or 1 minute later it will stop automatically

Disable function: Press the button for about 1 second, the mute LED, the centre LED and four LEDs on the end of the bar graph will be flashing at the same time. This is the disable function and the Tilt sensor will not work anymore. There are two ways to quit it. One is to press the button again and the other is to wait 30 minutes later it will cancel the function automatically

BAR GRAPHS, CENTRE BI-COLOUR LED AND BUZZER FUNCTIONALITY

When angle is more than 100% full range

- Corresponding LED bar flash
- Centre Bi-Color LED is RED flashing
- Buzzer is On

When the angle is between 50% and 100% of full range

- Corresponding LED bar flash
- Center Bi Color LED is red solid
- Buzzer is beeping

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When the angle is between 5% and 50% of full range

- Corresponding LED bar is on and there is a chirp between two LEDs
- Center Bi Color LED is red Solid
- Buzzer is Off

When the angle is smaller than 5% of full range

- LED bar is Off
- Center Bi Color LED is Green
- Buzzer is Off

Relay Output States:

When the angle is within range	CLOSED
When the angle is out of range	OPEN
When Tilt Indicator is powered down	OPEN