



## **KuSaBa Engineers Pvt. Ltd.**

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### **EZ-DETECT Omni-directional Angular threshold detection module**

EZ-DETECT is a LOW COST advanced microprocessor controlled Omni-directional angle detection module to be used on all types of applications where accurate and repeatable detection of tilt is required. EZ-DETECT is a 2"x2" module able to detect angular position deviations from any previously remembered object orientation in a +/-60 arcdeg angular range. The module includes error detection algorithms to minimize false alarm activations which may occur due to various ambient changes. The design includes internal supply regulation and Low stand-by current. Output is a standard TTL, CMOS or ( upon request ) NPN transistor in an Open Collector configuration. The design includes 8 hardware selectable detection levels and a self detecting SERIAL communication port to PC through standard terminal mode at 600 to 19200 Baud rates. Alarm active time could be hardware selected between 2msec and 580 msec. The module could operate with DX-008D sensor for higher sensitivity in a +/-20 arcdeg tilt range. The unit could be produced as a small potted module with 3 terminals or to be incorporated into future designs.

<b>Specification</b>	<b>Data</b>
<b>Power</b>	5-18 Vdc
<b>Current</b>	0.9 mA max in stand-by
<b>Output</b>	NPN OC
<b>Alarm Current</b>	100 mA
<b>Tilt Range</b>	± 60 arcdeg
<b>Primary detect</b>	3 arcdeg
<b>Sensitivity</b>	0.02 arcdeg
<b>Alarm Signal</b>	2 or 580 msec, selectable
<b>Reactivation</b>	10 or 40 sec selectable, automatic
<b>Connector</b>	3 pins: Vcc, GND, OUT

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