



## KuSaBa Engineers Pvt. Ltd.

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### Detection module

EZ-DETECT-G 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-G is a 2"x2" module able to detect angular position deviations from HORIZONTAL orientation in a +60 arcdeg angular range. The module includes error detection algorithms to minimize false alarm activation's, 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 G design includes 8 hardware selectable detection levels [GV includes a Potentiometer] and a self-detecting SERIAL communication port for PC communication via standard terminal mode at 600 to 19200 Baud rates. 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. The module will output logic 0 as long as the threshold level is not reached. If the event that the threshold is crossed, the output will change to logic 1. Upon the return of the orientation below the threshold level, the output returns back to logic 0. When used with DX-008D sensor, detection of smaller angles is possible. Custom threshold calibration and setup available upon request. All data was generated with the DX-045D sensor.

<b>Power</b>	5-18	Vdc
<b>Current</b>	0.9	mA max in stand-by
<b>Output</b>	NPN	Open Collector
<b>Alarm Current</b>	100	MA
<b>Tilt Range</b>	up to +60	Arcdeg (sensor dependant)
<b>Resolution</b>	8	Bits
<b>Sensitivity</b>	1	Count
<b>Alarm Signal</b>	continuous	Msec
<b>Connector</b>	3	Pins: Vcc, GND, OUT
<b>RS232 port</b>	RX, TX	Pins
<b>Thresholds</b>	8 continuous	G model, GV model

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