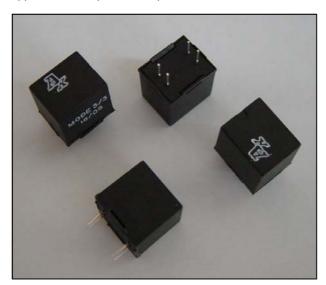
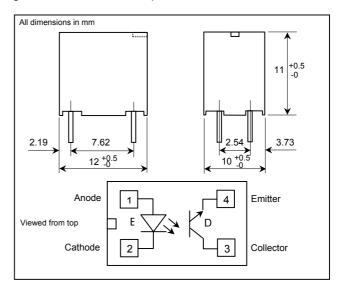
Non-Mercury Tilt Sensor - Mode 3/5 - C12-1190 (Vertically Mounted, Normally Open, Omni-directional, 22°)

TuControls Limited

The TuControls non-mercury, Mode 3/5, normally open tilt sensor is suitable for vertical PCB mounting & is housed in a small, robust moulded package, 11mm x 12mm x 10mm in size. The operate angle is 22°±2 from the vertical omnidirectionally in each axis for 360°. Using solid-state technology, this low powered device is suitable for CMOS logic. As a primary sensing device, the tilt sensor can be interfaced to standard TTL, or power devices & additional circuitry can be supplied for the operation of power transistors & FET's, enabling solenoids, motors & lamp loads to be switched.





Technical Characteristics						
Emitter						
Parameter	Symbol	Min.	Тур.	Мах.	Unit	Test Condition
Fwd Voltage	VF		1.2	1.6	V	IF = 20mA
Cont. Fwd Current	lF		20	50	MA	V _F =5V
Rev. Voltage	VR			5	V	IR=100μA
Power Dissipation	Рм			75	mW	
Detector						
Coll. Emitt. V	V			30	V	Ic=100μA
Emitt. Coll. B/D V	VECO			5	V	IE=100μA
Coll. Emitt. Leak. I	ICEO			100	nA	Vce=20V
On-state Current	IC(ON)	2		4	mA	Vce=5V
Coll. Emitt. Sat. V	VCE(SAT)			0.4	V	Ic=0.5mA, Ib=100μA
Power Dissipation	Рм			75	mW	
Operating Specification						
Operating	Ор	15	22	25	Deg	IF=20mA
Release (from Op.)	Rel	9	11	13	Deg	IF=20mA
Operating Temp.	Temp	-10		+70	°C	IF=20mA, Ic=10mA
Soldering Temp.	Tsol			+260	°C	For 5 Seconds Max.
Switch operations		1x10 ⁶				IF=20mA Ic(ON)=4mA

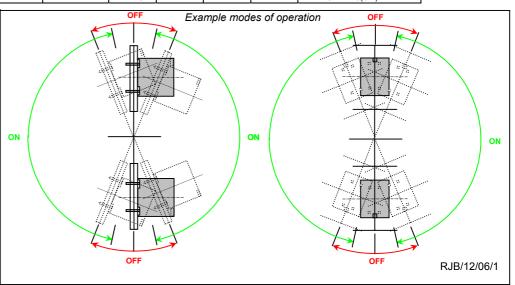
Features:

- **RoHS Compliant**
- Small robust construction
- Printed circuit board mounting
- Optical coupling
- Low power consumption
- Optional interface circuitry available
- Other tilt angles available
- Other "modes" of operation available

Typical Applications:

- Emergency shutdown
- Door / barrier position sensing
- Cam / motor position indicator
- Movement alarm

Important Note: Suitable for PCB washing, but not total immersion.



TuControls Limited reserve the right to change this data sheet without giving notice

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