# DS-120 tilt sensor / tilt switch





- Non-mercury Tilt Switch/Sensor.
- Switching/sensing of tilt in mechanical linkages.
- Suitable for digital logic inputs or LED's.
- May be used to operate a relay (with suitable protection).

### **Contacts**

Contact number & arrangement		SPST-NO (1 N/O), 1 Form A
Contact material		Ruthenium
Max. switching voltage	DC	48V
Rated load	W	10W
Maximum switching current	mA	400mA
Operating Angle	Operate	less than -10° (refer to Fig.3)
	Release	less than +10° (refer to Fig. 3)

### **General Data**

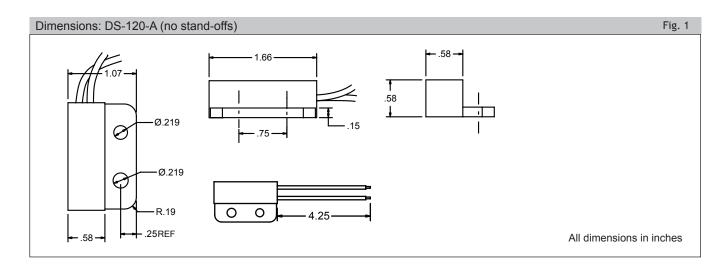
Oonoral Bata		
Housing		
Material		ABS
Color		Black
Sealing		IP65
Dimensions inches		Refer to Figs. 1 & 2
Lead cable		
Length	inches (mm)	2 x 4.25" (108mm)
Termination Type		Skived end
		20AWG XLPE (automotive grade)
	Color	Black
Weight		0.036 pounds (16.3 grams)
Ambient temperature		
Storage	°C	-40°C ~ +85°C
Operating	°C	-40°C ~ +85°C
Shock resistance G		30G for 11ms, half sine.
Vibration resistance G		3 axis @ 4G. 5-500Hz for 3hrs.

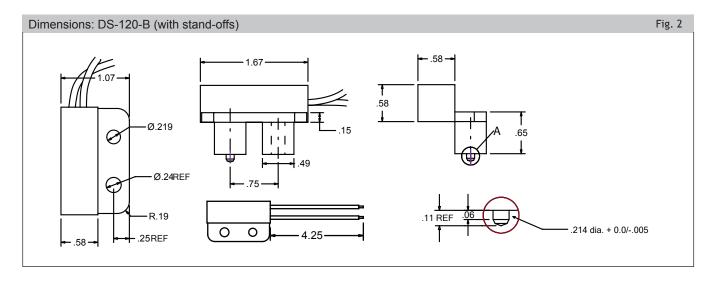


## **DS-120**

### tilt sensor / tilt switch







#### Mounting & Method of Operation Fig. 3 On a vertical surface with mounting bracket on low side or alternatively oriented on high side of sensor body. If mounting on a non-magnetic surface, select DS-120-A with the thin screw bracket, but if mounting on steel or other magnetic materials then use 1/2" plastic Must make +10° spacers or select DS-120-B with integral spacers 10° Included Magnetic steel surfaces and ferrous magnetic parts should not be nearer than 1/2" from the sensor body. Care must be taken not locate other permanent magnets where they might angle 10° 0 0 affect the operation of the DS-120 sensor switch. Must break -10° 1) Do not use with relay coils without back emf protection. Do not use to directly switch incandescent indicator lamps. (Consult factory) 3) Do not use to directly switch high inrush loads, capacitive or motor loads; nor, with wire runs longer than 100ft (Consult factory)

Specifications are subject to change without notice. E&OE.