



- Non-mercury
- Switching/Sensing Tilt in Mechanical Linkages
- Suitable for Digital Logic Inputs or LEDs
- May be used to operate a relay (with suitable protection)

Specifications

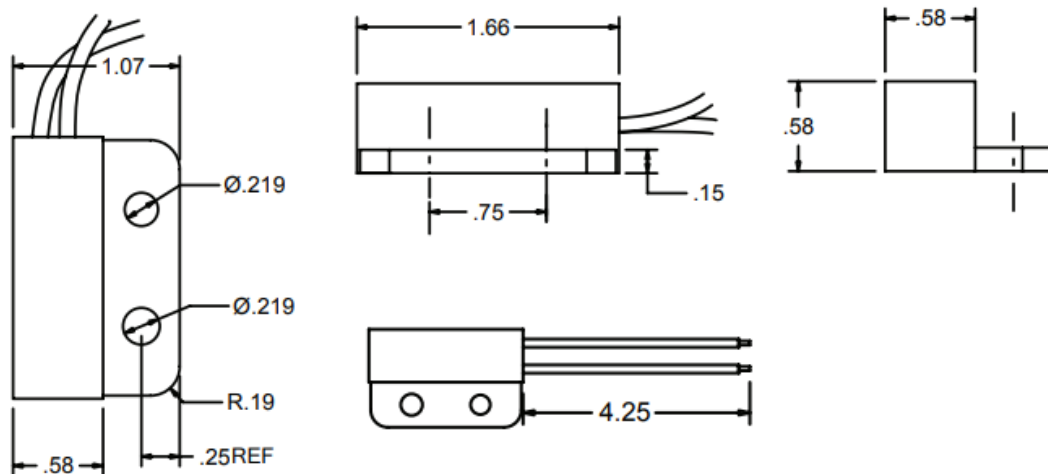
Contact number and arrangement	SPST-NO (1 N/O), 1 Form A	
Contact material	Ruthenium	
Max. switching voltage	DC	48V
Rated Load	W	10
Max. switching current	mA	400
Operating Angle	Operate	< -10° (refer to Fig. 3)
	Release	< -10° (refer to Fig. 3)

General Data

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

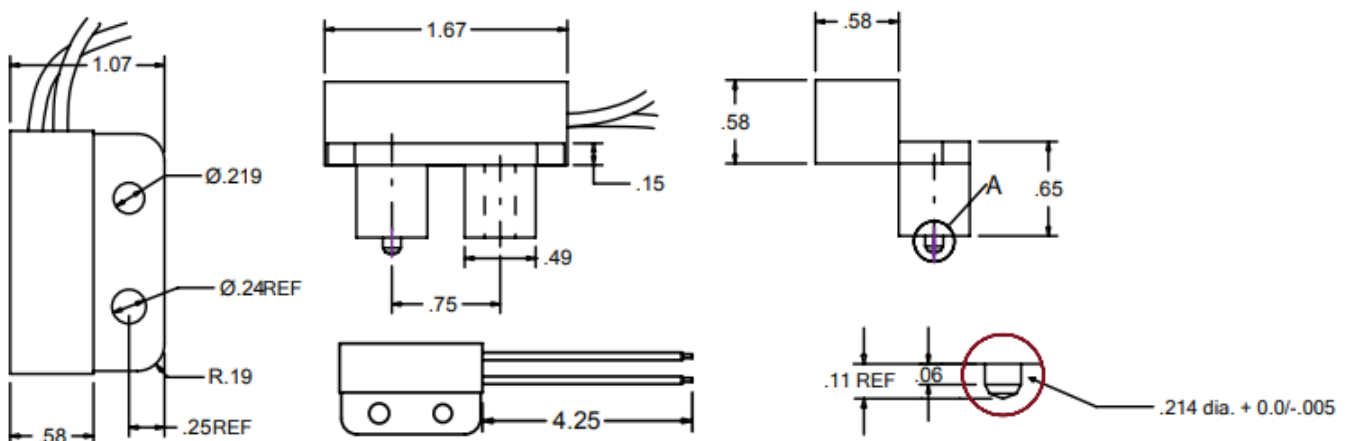
DS-120 A - No Stand-offs - Drawing Dimensions in inches

Fig. 1



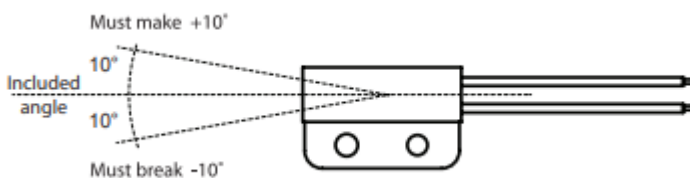
DS-120 B - With Stand-offs - Drawing Dimensions in inches

Fig. 2



Drawing - Mounting & Method of Operation

Fig. 3



Mounting

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 ½" plastic spacers or select 'DS-120 B' with integral spacers.

Magnetic steel surfaces and ferrous magnetic parts should not be nearer than ½" from the sensor body. Care must be taken to not locate other permanent magnets where they might affect the operation of the DS-120 sensor switch.

Notes:

- 1) Do not use with relay coils without back emf protection.
- 2) 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).