

Class 530 Inertia Switches

NEC — 7A Series:
Class I, Division 1, 2, Group D;
Class I, Zone 1, 2, Group IIA
Class II, Division 1, 2, Groups E, F, G
Class III
NEMA 7D, 9EFG

NEC — 4A Series:
NEMA 4

Applications

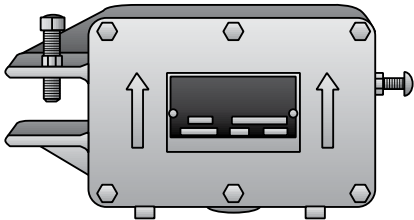
- The Inertia Switch is a unidirectional shut down device that operates upon sharp impact and provides protection for oil well pumping units. When installed properly, the switch will shut down the pump engine or motor upon impact occurring from sucker rod breakage.
- An external adjustment screw varies the impact trip level of the switch. The desired setting should prevent tripping on start up and normal operation, but trip upon malfunction. The switch should be located at a position subject to maximum shock forces. It should never be installed immediately adjacent to bearing surfaces.

NEC Certifications and Compliances

- UL Standard: 698

Options

- Gray Powder Coat Epoxy - Add suffix -G1
- Drain Only - Add suffix -BD



Class 530 Inertia Switch

Inertia Switch Assemblies

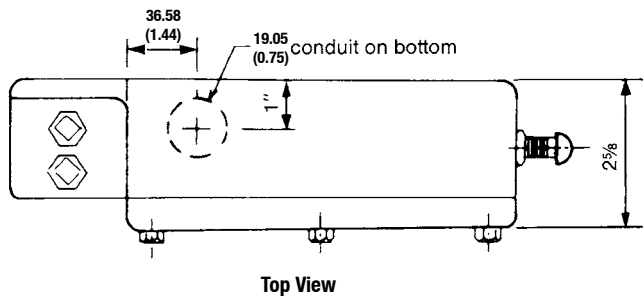
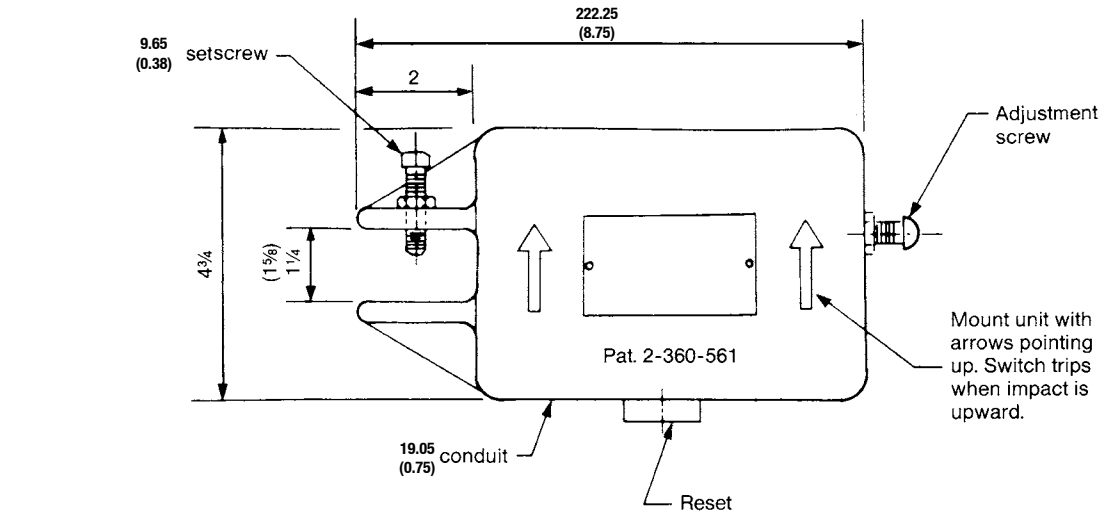
Type Switch	Switch Contact	7A Series Catalog Number NEMA 7/9	4A Series Catalog Number NEMA 4 (Only)
Snap	1 N.O., 1 N.C.	7AS10C	4AS10C
Snap	2 N.O., 2 N.C.	7AS20C	4AS20C
Snap	DP/DT	7ASDP	4ASDP

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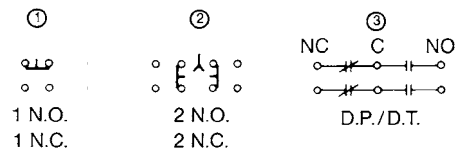
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Dimensions in Millimeters (Inches)



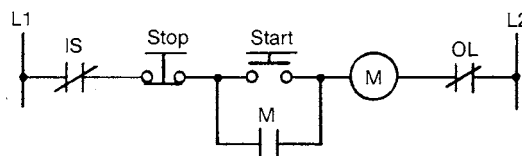
Switch Contacts – Snap Switch



1.	20 Amps at 230 Vac 10 Amps at 460 Vac	0.5 Amps at 115 Vdc 0.2 Amps at 230 Vdc
2.	15 Amps at 230 Vac 7.5 Amps at 460 Vac	0.2 Amps at 115 Vdc 0.1 Amps at 230 Vdc
3.	10 Amps at 250 Vac 10 Amps at 125 Vac	0.3 Amps at 125 Vdc 0.15 Amps at 250 Vdc

Typical Wiring

When the inertia switch is used in conjunction with a magnetic motor starter the unit should be inserted in the circuit as shown in the schematic below:



When the unit is used with a gasoline engine, connect one of the switch terminals to the magneto primary and the other to ground.