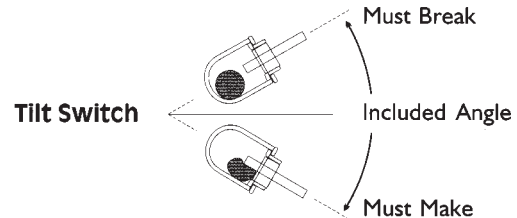










Non-Insulated Tilt and Position Switches

Tilt switches "make" when the electrode is tilted below horizontal and "break" when tilted above the horizontal. Total travel from "make" to "break" is the "Maximum included angle" shown below. The component to which the switch is attached must have a total tilt angle greater than the "Maximum Included Angle" for proper operation. "G" series switches are mercury-to-mercury; "A" series are mercury-to-metal.



Non-Insulated Tilt and Position Switches

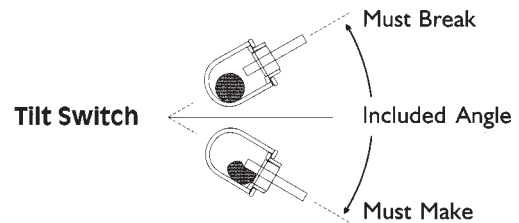
| TYPE/SERIES | A½S | A½N | A½ | A1S | A1N | G5N | G8N | G10N |
|---|--|--|--|--|---|--|--|--|
| PART NUMBER | 4929 | 5002 | 4859** | A1S-017 | 20144 | 3822 | 3825 | 3765 |
| Must Make/Break angle* | -7°/+7° | - | -2°/+15° | - | -1°/+1° | - | - | - |
| Max. Included Angle | - | 15° | - | 16° | 1.5° | 11° | 11° | 9° |
| Note: Switches are pictured in normally closed position |  |  |  |  |  |  |  |  |
| *Make/break angles are electrode + (above)/ -(below) 0° horizontal reference | | | | | | | | |
| ELECTRICAL RATINGS | | | | | | | | |
| AC Amps, 60Hz | | | | | | | | |
| 120V | - | 1 | - | * | 1 | 7 | 15 | 25 |
| 240V | - | 0.4 | - | * | 0.7 | 5 | 11 | 19 |
| 480V | - | - | - | * | - | - | 8 | 13 |
| DC Amps | | | | | | | | |
| 120V | # | 0.5 | - | * | 0.5 | 5 | 8 | 13 |
| 240V | # | 0.4 | - | * | 0.4 | 4 | 6 | 10 |
| Tungsten Lamp (120V, 60Hz), Watts | - | 60 | - | 75 | 100 | 700 | 1000 | 1700 |
| Motor Load, Horsepower AC 60Hz, 120-480V DC, 120-240V | - - | - - | - - | - - | - - | 0.33 0.25 | 0.5 0.33 | 1 0.5 |
| Contact Resistance Milliohms (Typical) | - | 80 | 150 | 30 | 200 | 3 | 3 | 3 |
| Standoff Voltage Contact to contact | - | 1250 | - | 1500 | 1500 | 1500 | 2500 | 3000 |
| ENGLISH DIMENSIONS | | | | | | | | |
| Lbs./100 pcs. | - | 0.33 | - | 0.68 | 1.1 | 1.88 | 4.59 | 5.62 |
| Body Length, in. (less leads) | 0.25 | 0.39 | 0.39 | 0.52 | 1 | 1.36 | 1.68 | 1.9 |
| Max. Diameter, in. | 0.27 | 0.27 | 0.27 | 0.34 | 0.389 | 0.42 | 0.5 | 0.62 |
| METRIC DIMENSIONS | | | | | | | | |
| Kg/ 100 pcs. | - | 0.15 | - | 0.31 | 0.5 | 0.85 | 2.08 | 2.55 |
| Length, cm | 0.99 | 1.91 | 1.94 | 1.52 | 2.5 | 3.97 | 4.74 | 5.36 |
| Max. Diameter, cm | 0.67 | 0.67 | 0.67 | 0.85 | 0.9 | 1.06 | 1.27 | 1.56 |
| Finish | Tin | Tin | Nickel** | Cadmium | Rust Inhibited | Rust Inhibited | Rust Inhibited | Rust Inhibited |

0.5Amps @ 12Vdc






* 1Amp, 6-24V/AC/DC

** Also available tin plated as part ref. 4954

Insulated Tilt and Position Switches



Insulated Tilt and Position Switches

| TYPE/SERIES | A½ | A1 | G5Z | G8Z | G10Z |
|--|---|--|---|--|--|
| PART NUMBER | | | | | |
| PVC | A½-001 | - | - | - | - |
| Cotton | - | A1-001 | G5Z-001 | G8Z-001 | G10Z-001 |
| Neoprene | - | A1-002 | G5Z-002 | G8Z-002 | G10Z-002 |
| Silicone | - | A1-003 | G5Z-003 | G8Z-003 | G10Z-003 |
| Max. Included Angle | 15° | 15° | 11° | 9° | 9° |
| *Switching occurs when body axis is near horizontal. |  |  |  |  |  |
| ELECTRICAL RATINGS | | | | | |
| AC Amps, 60Hz | | | | | |
| 120V | 1 | 1 | 7 | 15 | 25 |
| 240V | 0.4 | 0.7 | 5 | 11 | 19 |
| 480V | - | - | - | 8 | 13 |
| DC Amps | | | | | |
| 120V | 0.5 | 0.5 | 5 | 8 | 13 |
| 240V | 0.4 | 0.4 | 4 | 6 | 10 |
| Tungsten Lamp (120V, 60Hz), Watts | 60 | 100 | 700 | 1000 | 1700 |
| Motor Load, Horsepower | | | | | |
| AC 60Hz, 120-480V | - | - | 0.33 | 0.5 | 1 |
| DC, 120-240V | - | - | 0.25 | 0.33 | 0.5 |
| Contact Resistance Milliohms (Typical) | 30 | 30 | 3 | 3 | 3 |
| Standoff Voltage | | | | | |
| Contact to contact | 1250 | 1500 | 1500 | 1500 | 3000 |
| Contact to ground | 1500 | 5000 | 5000 | 5000 | 5000 |
| LEADWIRE INFORMATION | | | | | |
| Length, in. | 6 | 6 | 6 | 6 | 6 |
| Terminal | Spade | Ring | Ring | Ring | Ring |
| Hole Diameter | 0.142 | 0.170 | 0.170 | 0.203 | 0.203 |
| Machine Screw Size | #6 | #8 | #8 | #10 | #10 |
| ENGLISH DIMENSIONS | | | | | |
| Lbs./100 pcs. | 0.99 | 3.04 | 4.45 | 8.64 | 13.05 |
| Body Length, in. (less leads) | 0.96 | 1.31 | 1.81 | 2.03 | 2.38 |
| Max. Diameter, in. | 0.38 | 0.5 | 0.52 | 0.75 | 0.84 |
| METRIC DIMENSIONS | | | | | |
| Kg/ 100 pcs. | 0.45 | 1.38 | 2.02 | 3.92 | 5.92 |
| Length, cm | 2.44 | 3.33 | 4.6 | 5.15 | 6.03 |
| Max. Diameter, cm | 0.95 | 1.27 | 1.37 | 1.91 | 2.14 |
| MOUNTING CLIP | | | | | |
| Single | - | 122 | 122 | 122 | 122 |
| Double | - | 2023 | 2023 | 2008 | 2009 |