American Electronic Components, Inc.

American Electronic Components, Inc
1101 Lafayette Street
Elkhart, IN 46516
Tel: (574)-264-6099 Ext 501
Tel: (888) 847-6552: Fax: (574) 293-8013

Options

Durakool switches and sensors are available in normally-open or normally-closed contact forms, and in sizes for milli-amp signal loads to 25-amp power switching loads. They are available in single-throw and double-throw designs and can be insulated or non-insulated.

This catalog contains standard parts, but custom designs are available.

Applications

Today's growing use of microprocessors with printed circuit boards in appliance, automotive, communication and other fields is creating many new applications uniquely suited to

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DURAKOOL Tip-Over and Motion Switches

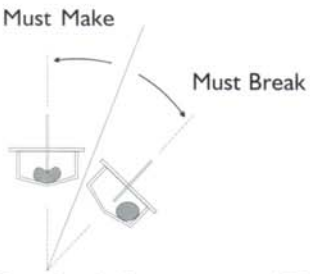
Durakool Tip-Over switches are specified by the angle of travel away from the vertical required to "make" or "break" the contact. The operating angle designed for the installation must be larger than this specification to ensure proper switch action.

TYPE/SERIES	TO3	TO8	TO8	TO8	A½S	A½S
PART NUMBER	TO3-1016 See Note 1	TO8-2009	20176	4539	4770	20243
Max. make/break angle (from 0° vertical reference)	10°/45°	12°/30°	10°/35°	25°/72°	15°/130°	Motion/vibration activated
Note: Switches are pictured in normally closed positions.						
ELECTRICAL RATINGS						
AC Amps, 60Hz						
120V	12.5	1.7	1.7	1.7	—	—
240V	6.0	0.75	—	—	—	—
DC Amps	—	1 (12VDC)	—	—	0.5 (12VDC)	0.5 (12VDC)
Tungsten Lamp (120V, 60Hz), Watts	1500 (Resistive)	—	—	—	—	—
Motor Load, Horsepower AC 60Hz, 120-240V	0.167	—	—	—	—	—
Contact Resistance Milliohms (Typical)	Meets UL Heat Rise Specification	5 Ohms @ 5 Volts/10mA*	Varied by Application	0.02 Ohms @ 1 Volt/10mA*	20 Ohms @ 1mA max.*	1 Ohm @ 5 Volts/ 1mA max.*
Standoff Voltage, Contact to Contact	1240	500	1240	500	—	200
ENGLISH DIMENSIONS						
Lbs./100 pcs.	3.20	1.7	0.77	0.77	—	0.31
Body Length, in. (with leads)	0.87	.44	1.08	0.65	0.84	0.627
Max. Diameter, in.	0.94	.477	0.60	0.60	0.27	0.31
METRIC DIMENSIONS						
Kg/100 pcs.	1.45	0.76	0.35	0.35	—	0.13
Length, cm	2.21	1.13	2.74	1.65	2.12	1.6
Max. Diameter, cm	2.40	1.22	1.52	1.52	0.67	0.79
Finish	Nickel	Acid Tin	Acid Tin	Nickel	Acid Tin	Acid Tin

Note 1: TO3-1015 = ¼" Male Quick Connect Center Elect. Mounting Terminal
TO3-1016 = ¼" Male Quick Connect Center Elect., ¼" Female 180°
TO3-1026 = ¼" Male Quick Connect Center Elect., ¼" Male 180°

*Varies by application

Tip-Over Switch



Not all part numbers are shown within a series. Angle specifications are dependent on rotation rates and electrical load parameters. For additional information, contact AEC Sales

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DURAKOOL Specialty Switches

TYPE	Single-pole	Wide Angle
PART NUMBER	20110	5199
Max. Included angle (from 0° vertical reference)	30°	20°
DESCRIPTION		
	Must make between 45° and 75° from vertical.	Must make between 50° and 70° from vertical.
ELECTRICAL RATINGS		
AC Amps, 60Hz 12 VDC	10 mA (max) all voltages	10 mA (max) all voltages
ENGLISH DIMENSIONS Lbs./100 pcs. Body Length, in. (with leads) Max. Diameter, in.	 0.33 0.74 0.31	 0.32 0.52 0.31

DURAKOOL Ball Switches