COLE INSTRUMENT CORP.

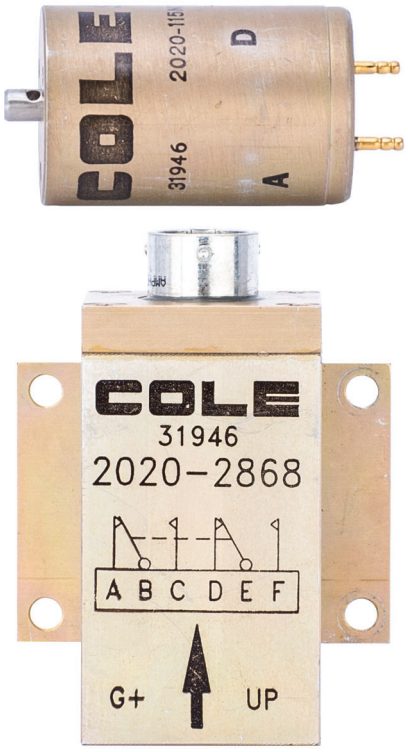
The Innovative Switch Company

COLE'S 2020 SERIES INERTIA SWITCH PROVIDES THE ULTIMATE MECHANICAL AND ELECTRICAL RELIABILITY.

The 2020 Series is available with one pole and with variable amplitude of 1 to 100 Gs, with turret or solder lug terminals, and with normally open (N.O.) or normally closed (N.C.) contacts. They are also resettable for testing purposes.

Cole's inertia switch is designed for critical ordnance applications, missile arming, wing deployment and detonation on impact.

Precision construction with the highest quality materials provides high current capacity with constant low contact resistance and exceedingly stringent inspection and testing procedures promise extreme reliability.



2020 SERIES

Inertia Switches

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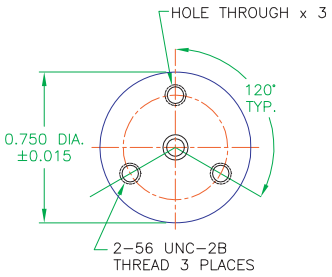
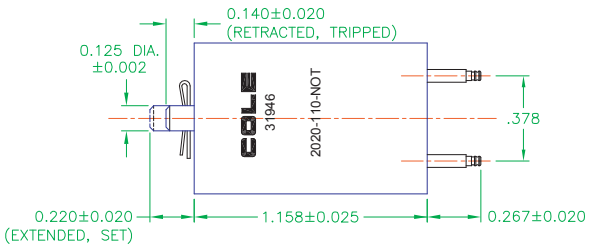
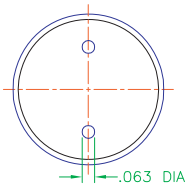


Front View

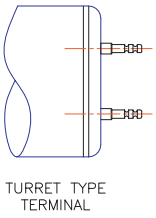


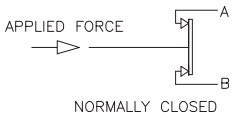
Side View

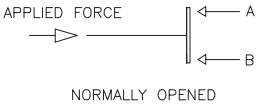


Rear View

Typical Features







NOTES:
1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ±.005 and ±3° on angles (non-accumulative)
3. Switch latches close on impact.

ORDERING INFORMATION

Sample Code

2020 - 1 05 - ****

- **2020** — Cole Basic Switch number
- **1** — Number of poles (one pole only)
- **05** — Maximum Level of g force (1-100)
- ******** — Alphabetical Designation for Options

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number.

M = with Mounting plate
NO = Normally Opened structure
NC = Normally Closed structure
T = with Turret Type Terminals

While ordering information is provided, we encourage you to contact Cole for assistance creating a part number.

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Series 2020 Technical Data

Specification	Unit	Value	Note:
Continuous (Non-Switching) Current Carrying Capacity	Amps	6	
Switching Current Capacity at 28 VDC resistive	Amps	0.250	at Atmospheric pressure with 85˚C and at reduced Barometric pressure with 25˚C
Switching Current Capacity at 115 VAC resistive	Amps	0.150	
Switching Current Capacity at 28 VDC inductive (2.8 H.)	Amps	0.030	
Dielectric Strength, min.	VAC	3,000	
Contact resistance	milliohms (mΩ)	50	
Insulation resistance	megaohms (MΩ)	Infinity	
Contact Surfaces		Gold plated	.00003 gold over pure silver
G-Force	G	1 to 100	
Altitude	feet	70,000	typical pressure at 70,000 feet: 0.64 psi
Temperature, min.	degrees Celsius	-65	
Temperature, max.	degrees Celsius	85	

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