E Littelfuse Cak

ED & EDM Series



Specifications

ED	Disc Element			
EDM	Disc Element and double dome			
Function	Momentary action			
Contact Type	Normally open - SPST			
Terminals	Through hole PCB terminations or Tabs			
Operating Life	1,000,000 cycles			
Packaging	Trays 50 pieces			

Electrical Characteristics

	Silver	Gold		
Max. Power	1 VA	0.2 VA		
Min./Max. Voltage	20 mVDC - 100 VDC			
Min./Max. Current	1 mA to 100 mA	50µA to 50 mA		
Dielectric Strength	≥ 250 Vrms			
Contact Resistance	≤ 100 mΩ			
Insulation Resistance	Initial measurement $\ge 1 \text{ G}\Omega$ After damp heat $\ge 10 \text{ M}\Omega$			
BounceTime	≤ 3 ms			

Environmental Characteristics

Materials	Silver	Gold
Operating Temperature	-25°C to 70°C	-55°C to 85°C

Description

The ED keyswitches are self-cleaning, short travel sealed tact switches commonly found in panels and various forms of instrumentation. Known for providing great tactile feedback, the ED series is available in three actuation forces and is compliant with RoHS regulations. Throughout the aerospace industry, the EDM sealed tact keyswitches are used in a variety of instrument panels, giving users a high-performance, long-lasting switch with great tactile feedback. EDM keyswitches are built for short travel and are self-cleaning, with three actuation forces available.

Features & Benefits

Short travel

Applications

Aircraft

Instrument

- Good tactile feedback
- Self cleaning
- 3 actuation forces
- Panels
- Radio equipment

Extension Littelfuse

Littelfuse Cak Switches

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Mechanical Characteristics

Туре	Operating Force N (grams)	Tactile Feeling Δ%	Return Force N	Travel (mm)
EDXXXX LFX	$2.4(240) \pm 25\%$	$\geq 30\%$	≥ 0.4	0.3 ± 0.15
EDM450XXX LFX	$4.5 (450) \pm 25\%$	≥ 25%	≥ 1	0.5 ± 0.25
EDM650XXX LFX	6.5 (650) ± 25%	≥ 25%	≥ 1.6	0.6 ± 0.25

 $\textbf{Simultaneity:} \leq 0.05 \text{ mm}$

ED/EDM SC







ED/EDM









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Switch Action Principal

The disc contact is essentially made of two separate conductive dome diaphragms separated by an insulated material.

The upper diaphragm is shaped so that under pressure it collapses suddenly and establishes contact with the lower diaphragm.

Upper Diaphragm Switch in Resting Position



Pressure Switch in Active Position



Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



Operation Force _______ 450: 4.5 N (450 grams) 650: 6.5 N (650 grams) Contact Material -S: Silver G: Gold

EDM - x - x - x - x

Lead Free Compatible LFS: RoHS, Silver tabs LFG: RoHS, Gold tabs LFT: RoHS, Pure tin (terminals only)

Terminals AC¹: with pc pins SC²: with tabs

L

Notes: 1. AC terminals only available with LFT 2. SC terminals only available with LFS or LFG

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