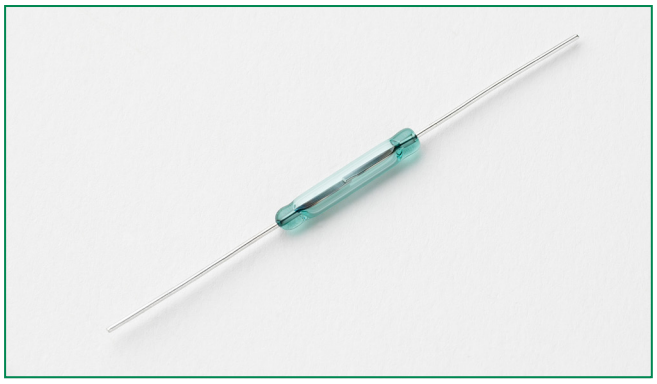
FLEX-14 14mm Reed Switch

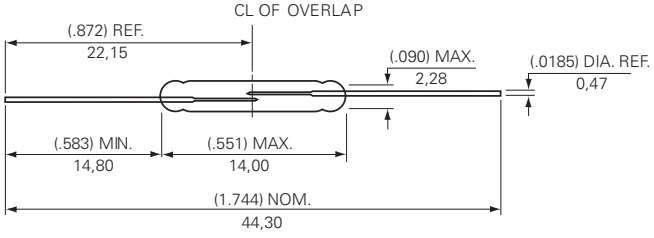


Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
c UL us	E47258 E471070	10-30 AT
Ex	DEMKO 14 ATEX 1393U	10-30 AT

Dimensions

Dimensions in mm



Description

The FLEX-14 reed switch is a sub-miniature, normally open switch with a 14.00mm long x 2.28mm diameter (0.551" x 0.090") glass envelope, flexible, easily formed leads, capable of switching 200Vdc at 10W. It has high insulation resistance of 10^{10} ohms minimum and low contact resistance of less than 100 milliohms.

Features

- Sub-miniature, normally open switch
- Longer leads are flexible for easy forming
- Capable of switching up to 200Vdc or 0.5A at up to 10W
- Available sensitivity range 10-30 AT

Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Soft leads enable reliable hand forming
- Zero operating power required for contact closure
- Excellent for switching micro-controller logic level loads

Applications

- Reed relays
- Security
- Limit switching
- Office equipment
- Industrial Control

Switch Type

Contact Form	A (SPST-NO)
Materials	Body: Glass Leads: Tin-plated Ni-Fe wire

Note: SPST-NO = Single-pole, single-throw, normally open

Electrical Ratings

Contact Rating [1]		W/VA - max.	10
Voltage [3]	Switching [2] Breakdown [4]	Vdc - max. Vac - max. Vdc - min.	200 140 250
Current [3]	Switching [2] Carry	Adc - max. Aac - max. Adc - max.	0.50 0.35 1.00
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10^{10}
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating Storage [5]	°C °C	-40 to +125 -65 to +125

Notes:
1. Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
2. When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
3. Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.
4. Breakdown Voltage - per MIL-STD-202, Method 301.
5. Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the leads.

 Revised: 10/16/15

FLEX-14 14mm Reed Switch

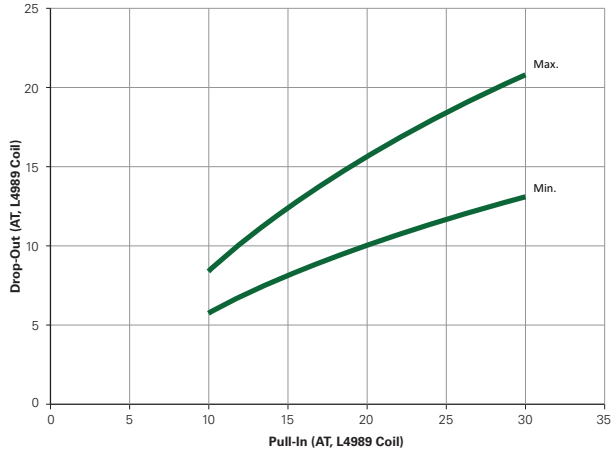
Product Characteristics

Operating Characteristics		
Operate Time [1]		0.55ms - max.
Release Time [1]		0.20ms - max.
Shock [2]	11ms 1/2 sine wave	100G - max.
Vibration [2]	50-2000 Hertz	30G - max.
Resonant Frequency		5.2kHz - typ.
Magnetic Characteristics		
Pull-In Range [3]	Ampere Turns	10-30
Rating Sensitivity [4]	Ampere Turns	20
Test Coil		L4989

Notes:

1. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A,diode suppressed coil (Coil II).
2. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.
3. Pull-In Range - Contact Littelfuse for narrower AT ranges available.
4. Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

Drop-Out vs. Pull-In Chart



Note: Chart represents the range of Drop-Out, min to max for a given Pull-In value.

Part Numbering System

FLEX-14-10-15

Series

AT Range

10-15 AT
15-20 AT
20-25 AT
25-30 AT

Example:
10-15 AT product is
FLEX-14-10-15

Note: These AT values are the before-modification values of the bare reed switch.

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	3000	N/A	N/A

 Revised: 10/16/15

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

FLEX-14 10-15 FLEX-14 15-20 FLEX-14-10-15 FLEX-14-15-20 FLEX-14-20-25 FLEX-14-25-30 FLEX-14-30-35 FLEX-14-7-10 FLEX-14-35-40