Microcontroller based
Vibrating Fork Level Limit Switch for Solids

elicron

No Moving Parts **No Wear & Tear**
Easy Installation **Fast Commissioning**
Reliable Switching **Drift Free Operation**

Salient Features

Low Power Consumption - Less Heat - Long Life
max 400 mili-watt

True Universal Power Supply
11 to 55 VDC
19 to 265 VDC } **on same terminals**

Fast Switching
0.8 second : low sensitivity
1.5 second : high sensitivity

Compact Size
less inventory

Solid Temperature Durability
standard model up to 80°C
H1 model up to 150°C
H2 model up to 200°C

Self Diagnosis
system fault alarm
fork erosion alarm

And...
unaffected by spurious vibrations
independent of material electrical properties
cover and uncover delay setting
adjustable sensitivity to suit material types
integral and remote versions
adjustable insertion length

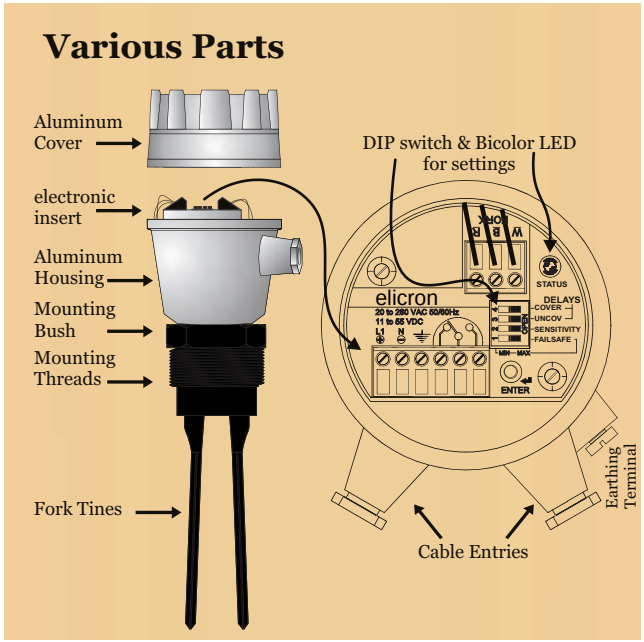
Application

Level limit detection of fine grains, free flowing, solids including:

very low density & pneumatically conveyed media powders , sand, sugar and:

Pulverized Coal	PET/PVC Chips
Food Grains	Wheat & Flour
Cement	Fly-Ash
Granular Material	Iron ore, Sinters etc.

Various Parts



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Usage

Levellimit switches for solid powders and bulks are suitable for wide variety of materials, and with temperature ranges extending up-to 200°C.

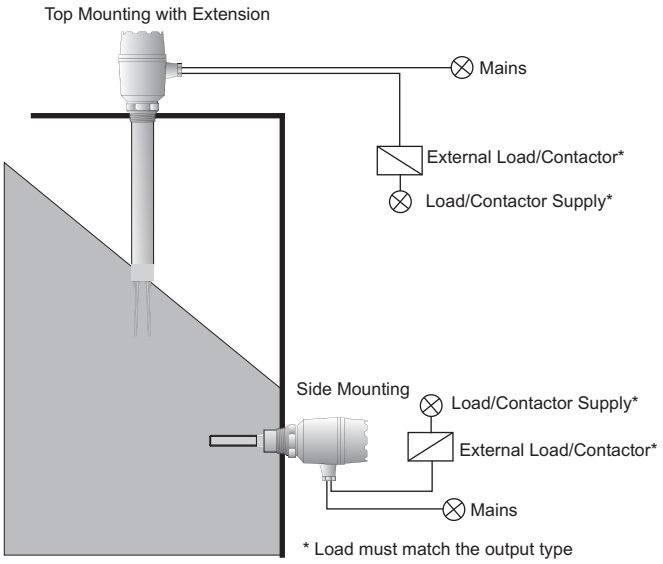
Offers a variety of built-in features non-existant in other principles e.g. where materials have varying electrical properties, corrosive, agitated, vibrations along the container walls, conveyor belts.

For detecting levels of granular material submerged in liquids of low viscosity like “under water sand, gravel, plastic, nylon chips detection”.

Specifications

Housing	Cast aluminum Weather proof and Flame proof suitable for mounting in Hazardous area Gas Group IIA & IIB as per IS-2148
Type	Integral with fork
Cable Entry	Double Compression Gland
Mounting	Screw : 1½” to 2” BSP/NPT(M) Flanged : (as per order) Material: SS/MS(Plated)
Mains	19 to 260VAC 50/60Hz 11 to 55VDC
Power Consumption	400 mili-Watt maximum
Output	SPDT Potential-Free Relay Contact 6A, 230VAC & 6A, 25VDC for non-Inductive loads.
Sensing	Resonating Fork, SS-316
Delay Setting	Cover & Uncover Delay : 0.8/1.5 to 20 sec through DIP switches
Failsafe Setting	Field Selectable (through DIP switch) (Min : Failsafe Low, Max : Failsafe High)
Sensitivity Setting	Field Selectable (through DIP switch) low sensitivity : strong vibrations high sensitivity : weak vibrations
Resonant Frequency	from 80 Hz to 320 Hz (depending on tine length)
Extension	Pipe - GI / SS
Material Temperature	-20°C to 80°C/150°C/200°C
Response Time	0.8 seconds for low sensitivity 1.5 seconds for high sensitivity
Switching Indication	Bi-color LED, Red: Alarm, Green: Normal
Dimensions	Refer Drawings/Customer Support

System Diagram



Order Code

elicron

Temperature
- S Suitable up to 80 °C
- H1 Suitable up to 150 °C
- H2 Suitable up to 200 °C

Power & Output
- A 19-260VAC, O/p SPDT Relay
- B 11-55VDC O/p SPDT Relay
- C 11-55VDC Open Collector PNP
- D Two-wire loop powered 8/16mA

Enclosure
- W Weather Proof
- P IP-65
- F Flame Proof for Gas Group IIa and IIb

Process Connection
- T Threaded: BSP/NPT/DIN 1”
- F Flanged: ASA/ANSI/JIS/DIN 1½”
- O Other (to be specified by customer)

Wetted Parts

S6 SS 316	PT PTFE lined
SL SS 316 L	PA PFA lined
HC Hastelloy C	HL Halar lined

Probe Length in mm
- Standard : 200 mm
- 150 mm to 3000 mm

S	A	W	T	S4	200

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