

MINIATURE VIBRATING FORK TYPE LEVEL SWITCH
SERIES 135 VLM

The ever-growing popularity of the 135-VLM Miniature Vibrating Fork Type Level Switches is ensured by their versatility, provided by their principle of operation. Vibrating Fork Level Switch 135-VLM is mainly for Liquids and free-flowing solids. It works on the principle of a change in frequency of a Vibrating Fork due to presence of a liquid / solid.

FEATURES:

- ❑ Low power Microprocessor based intelligent device.
- ❑ Compact in size.
- ❑ setting of FSH/FSL is possible without removal of instrument from process with the help of Magnetic key, no down time required.
- ❑ Protection against short circuited load.
- ❑ Switch configuration programmable.
- ❑ Health check feature.

SPECIFICATIONS :

- ❑ Fork material : SS316L (Only for standard Fork)
- ❑ Process connection : Threaded 1"
- ❑ Maximum Pressure : 40 Bar Max.
- ❑ Media temperature : - 40°C to + 80°C (Std.)
: -40°C to + 180°C (Opt.)
- ❑ Ambient temperature : - 20°C to + 70°C
- ❑ Insertion length : 69-3000 mm
- ❑ Process connection size : Min. 1" BSP
- ❑ Density of medium : Liquid ≥ 0.7 kg/dm³
: Solids ≥ 0.05 kg/dm³
- ❑ Liquid viscosity : ≤ 6000 cps
- ❑ Switching time : ≤ 2 sec Free
- ❑ Output mode indicator : Bi-colour LED,
Green - Normal
Red flash – Alarm
- ❑ Sensitivity settings : For Liquids - Low -
If density ≥ 0.7 kg/dm³
: For Solids - Low -
If density ≥ 0.05 kg/dm³
- ❑ Housing Material : SS 316
- ❑ Sensitivity programming & Fail safe high/low : LED sequence,
field selectable by magnetic key.
- ❑ Output rating : PNP Transistor,
300mA (Max.)
- ❑ Electric connections : PG 11
- ❑ Supply Voltage : 24 VDC $\pm 10\%$
- ❑ Degree of protection : IP 65
- ❑ Power consumption : 17 mA @ 24 VDC.

**APPLICATIONS :**

- ❑ The 135-VLM covers a large variety of level detection applications and more....high/ low fail safe limit switch, overflow or dry run protection, pump controls, dry / wet indication in pipes etc.
 - All liquids for process vessels, tanks
 - To check presence of liquid in inlet, outlets pipings.
 - light, free flowing solids.
- ❑ PNP open collector contact output (for use with PLC's and for Alarm Annunciation)
- ❑ Fit and forget device: simple installation, no maintenance
- ❑ Switching performance does not depend on the change of liquid conductivity, dielectric constant, viscosity, pressure and temperature.
- ❑ Suitable for Food, Edible oils and hydrogenated fats.
- ❑ Hygienic versions with various process connections for Milk / Food applications (For details about fine polishing contact factory).

SWITCH **PROCESS CONNECTION** **LENGTH**

135 VLM - **P** **1** **L=**

OUTPUT TYPE :
P-PNP OPEN COLLECTOR OUTPUT

TEMPERATURE :
1-0°C TO 80°C (STD.)
2-UP TO 180°C (OPT.)

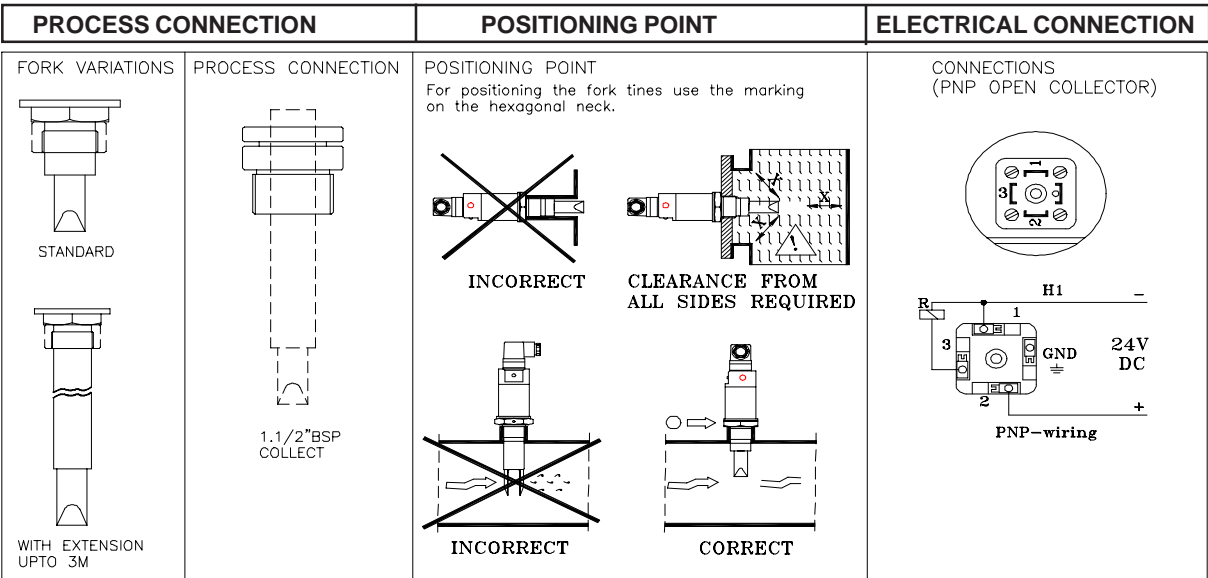
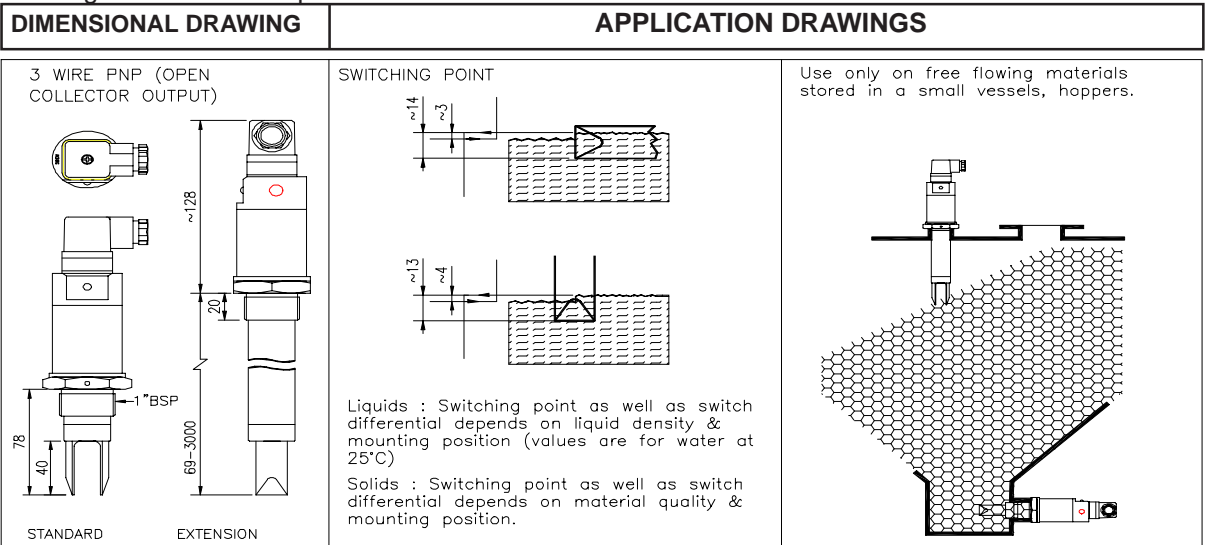
PROCESS CONNECTION :
B-THREADED 1" BSP
N-THREADED 1" NPT
I - FLANGED
(FOR COATED VERSION ONLY)

INSERTION LENGTH IN MM :
69-STD (MAX 3000 MM)

MATERIAL OF CONSTRUCTION OF PLATE FLANGE :
6 - SS316
4 - SS304
2 - CS

FLANGE SIZE (PRESSURE RATING 150#):
00 - NOT APPLICABLE
11 - 1" ANSI
16 - 1 1/2" ANSI
21 - 2" ANSI
26 - 2 1/2" ANSI
31 - 3" ANSI

Note: Slip on Flange with suitable threading in required material e.g. CS/SS316/SS304, will be provided for all Flanged versions except coated.



*** Continuous developments may necessitate changes without notice.

LF-135-0805 Rev.00 10/2005



SBEM Pvt. Ltd.

39, Electronic Co-Operative Estate, Pune-Satara Road, Pune – 411 009 (INDIA)

Tel. – 91-20-24220505, 24223375 Fax – 91-20-24215670

Email – sbemsales@sbem.co.in, sbemsales@vsnl.com

Works : Bibwewadi Industrial Estate, 691/A/2, Pune-Satara Road, Pune-411 037(India) Email : mfg@sbem.co.in

Office : MUMBAI

Tele. : 91-22-27823601, 27823603

Fax : 91-22-27823603

Email : mumbai@sbem.co.in

CHENNAI

91-44-24451235, 24412947

91-44-24412947

chennai@sbem.co.in

NEW DELHI

91-11-26560647, 26969679

91-11-26969679

newdelhi@sbem.co.in