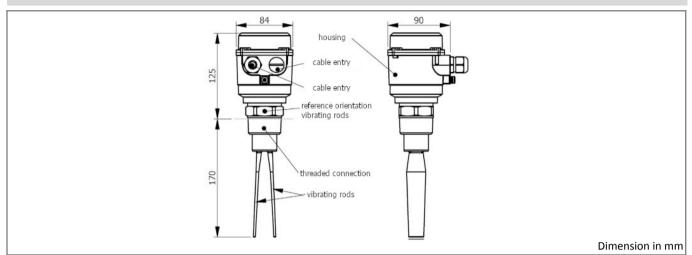


# **LEVEL CONTROLS**

# **Vibration Level Controls**

Part number: CLM000060 Model: VL-A170



### 1. TECHNICAL CHARACTERISTICS



0.14 ÷ 2.5 mm2 (AWG 26 ÷ 14)
Cable gland: M20x1.5 with cable sheath diameter 6÷12mm CONDUIT: NPTx½ o NPT3/4
Rods free → Rods covered: c.a. 1 sec Rods covered → Rods free c.a. 1 2 sec
Settable on the circuit with selector switch
200 c.a.
II
2 (inside housing)
Body: Aluminium powder coated RAL5010 Seals: NBR
IP 67 according to EN 60529
Material: AISI 316 (1.4581) Thread: R1/2 conical
AISI 316 (1.4581)
50
1700
DC: 20 ÷ 40 ±10% AC: 20 ÷ 230 ±10% 50 ÷ 60 Hz
2
22
AC: max 250V, 8A not inductive DC: max 30V, 5A not inductive
I
Present on the internal circuit



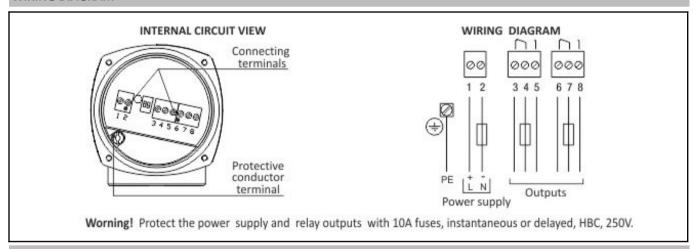
### **LEVEL CONTROLS**

### **Vibration Level Controls**

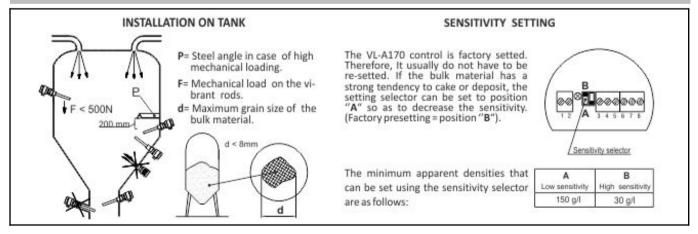
Operative condictions		
Ambient temperature:	[°C]	-40 ÷ +60
Process temperature-Tc:	[°C]	-40 ÷ +150
Ventilation:		Ventilation is not required
Min. powder density:	[g/l]	Setting A: c.a. 150 - Setting B: c.a. 30
Features of bulk material:		No strong tendency to cake or deposit. Max grain size 8 mm
Max. mechanical load:	[N]	500 laterally on vibrant rods
Max. process pressure:	[Bar]	16
Vibration:		c.a. 200
Relative humidity:		0 ÷ 100%, suitable for outdoor use
Altitude:	[m]	max 2.000
Compliance to Standards / Direct	ives	
Directives compliance:		2014/30/EU -Electromagnetic compatibility directive (EMC) 2014/35/UE -Low voltage directive (LVD)
Standards compliance:		EN61010-1 and EN61326-A1

#### 2. NORME DI INSTALLAZIONE

#### **WIRING DIAGRAM**



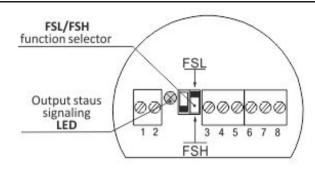
### INSTRUCTIONS FOR CORRECT INSTALLATION



### **LEVEL CONTROLS**

## **Vibration Level Controls**

#### **MAXIMUM OR MINIMUM LEVEL SETTING AND REALAY OUTPUTS STATUS**



#### FSH MAX LEVEL SETTING(High level security)

If the VL-A170 control is used to indicate the maximum level, set the selector on FSH (Fail Safe High). With this selection, any interruption of the power supply (mains failure, cable break, etc.) is considered as a full tank signal, thus preventing out of the material from it.

Relay contacts	345678	3 4 5 6 7 8
LED	➾	$\otimes$
		Vibrating rods covered of material

#### FSL MIN LEVEL SETTING (Low level security)

If the VL-A170 control is used to indicate the minimum level, set the selector on FSL (Fail Safe Low). With this selection, any interruption of the power supply (mains failure, cable break, etc.) is considered as an empty tank signal, thus preventing the unloaded run of the drain.

Selector setting	FSH	FSL
Relay contacts	3 4 5 6 7 8	3 4 5 6 7 8
LED	$\otimes$	->>
		Vibrating rods free of material

## **OPERATIVE TEMPERATURE DIAGRAM**

