

# Level Sensors Conductive Types VN, VNY, VPC, VPP

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- 1 to 4 electrodes
- Isolated or unisolated electrodes
- Cable or screw connection
- 1/2", 1" or 1 1/2" without pipe thread according to ISO 228/1-Gxxx"

## Product Description

Level sensor for measuring the level of conductive liquids, i.e. max./min. control of charging or discharging. The function is determined by

the amplifier relay used. The sensors are delivered with standard length electrodes - these are cut off to suit the application.

## Ordering Key

**VPC 110**

Type \_\_\_\_\_  
Housing material \_\_\_\_\_  
Number of electrodes \_\_\_\_\_  
Thread \_\_\_\_\_

## Type Selection

| Pipe thread | Electrode isolation | Housing Material | Ordering no.<br>1 electrode | Ordering no.<br>2 electrodes | Ordering no.<br>3 electrodes | Ordering no.<br>4 electrodes |
|-------------|---------------------|------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| 1 1/2"      | No                  | Nylon 6          | <b>VN 1</b>                 | <b>VN 2</b>                  | <b>VN 3</b>                  | <b>VN 4</b>                  |
| 1 1/2"      | No                  | Nylon 6          | <b>VNY 1</b>                | <b>VNY 2</b>                 | <b>VNY 3</b>                 | <b>VNY 4</b>                 |
| 1 1/2"      | Polyethylene        | Nylon 6          | <b>VNI 1</b>                | <b>VNI 2</b>                 | <b>VNI 3</b>                 | <b>VNI 4</b>                 |
| 1 1/2"      | Polyethylene        | Nylon 6          | <b>VNYI 1</b>               | <b>VNYI 2</b>                | <b>VNYI 3</b>                | <b>VNYI 4</b>                |
| 1/2"        | Polyethylene        | PVC              | <b>VPC 105</b>              | <b>VPC 205</b>               |                              |                              |
| 1"          | Polyethylene        | PVC              | <b>VPC 110</b>              | <b>VPC 210</b>               | <b>VPC 310</b>               |                              |
| 1/2"        | Polypropylene       | Kynar (PVDF)     | <b>VPP 105</b>              | <b>VPP 205</b>               |                              |                              |
| 1"          | Polypropylene       | Kynar (PVDF)     | <b>VPP 110</b>              | <b>VPP 210</b>               | <b>VPP 310</b>               |                              |

## Specifications

|                                                                                                            |                                                                |                                                                                                                                                                               |                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrodes</b><br>Material<br>Standard length<br>VN, VNY<br>VPC, VPP<br>Diameter<br>VN, VNY<br>VPC, VPP | Stainless steel<br><br>100 cm<br>50 cm<br><br>Ø 5 mm<br>Ø 4 mm | <b>Environment</b><br>Degree of protection<br>Operating temperature<br>VN, VNY<br>VPC<br>VPP<br>Storage temperature<br>VN, VNY<br>VPC, VPP<br>Pressure<br>VN, VNY, VPP<br>VPC | IP 67<br><br>0° to 90°C (32° to 194 °F)<br>0° to 60°C (32° to 140 °F)<br>0° to 100°C (32° to 212 °F)<br><br>-25° to 100°C (-13° to 212°F)<br>-20° to 110°C (-40° to 230°F)<br><br>10 bar at 60°C<br>2 bar at 60°C |
| <b>Housing</b><br>Connection<br>VN<br>VNY, VPC, VPP                                                        | Cable (PVC), 2 m<br>Screw terminals                            |                                                                                                                                                                               |                                                                                                                                                                                                                   |



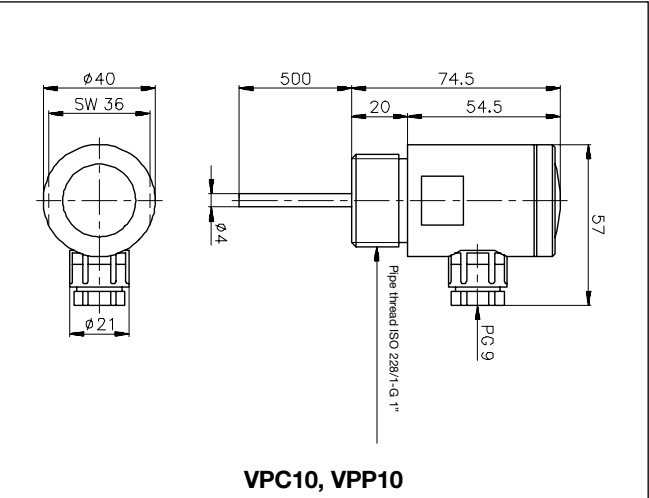
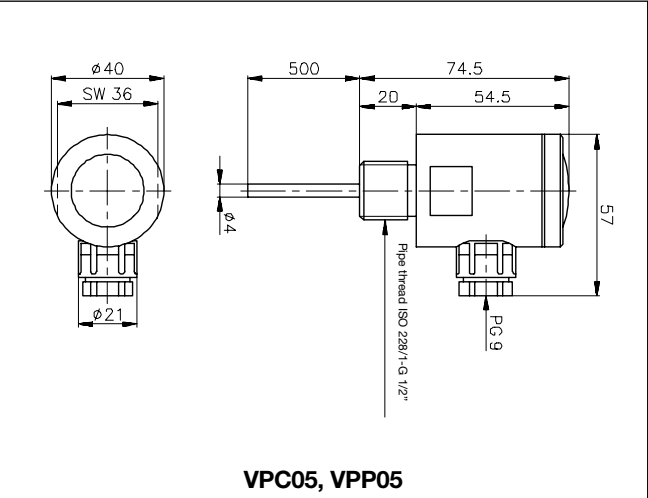
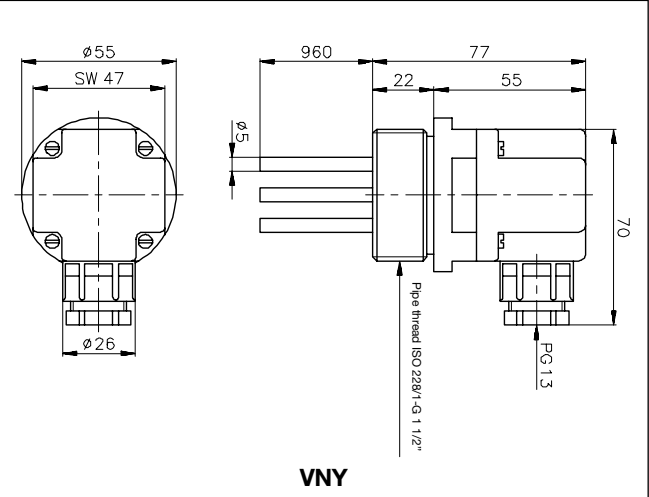
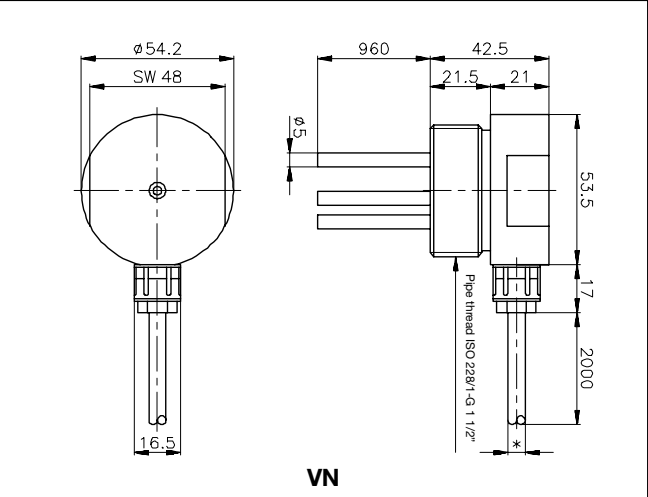
Mode of Operation

The length of the electrodes determines the levels which will be detected and the amplifier chosen determines the function (see SV..., S195/196, S1961, ELA, ELC or ELD). If the container is made of a conductive material this can be used as common electrode.

Accessories

Extension joint for Ø5 mm electrodes (VN/VNI): **VD1**

Dimensions



Wiring Diagrams

