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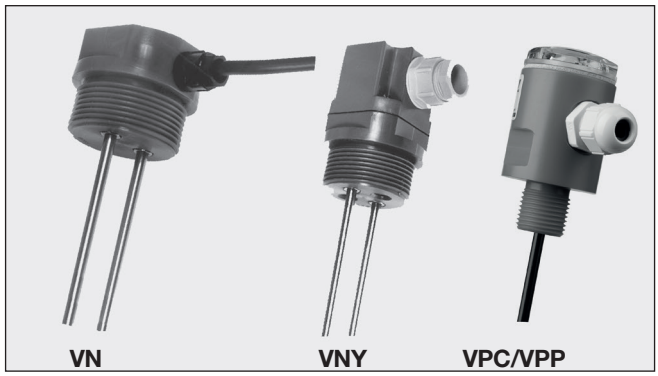
Conductive Sensors
Level Probes
Types VN, VNY, VPC, VPP



- 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"

CE

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. 1 electrode	Ordering no. 2 electrodes	Ordering no. 3 electrodes	Ordering no. 4 electrodes
1 1/2"	No	Nylon 6	**VN 1**	**VN 2**	**VN 3**	**VN 4**
1 1/2"	No	Nylon 6	**VNY 1**	**VNY 2**	**VNY 3**	**VNY 4**
1 1/2"	Polyethylene	Nylon 6	**VNI 1**	**VNI 2**	**VNI 3**	**VNI 4**
1 1/2"	Polyethylene	Nylon 6	**VNYI 1**	**VNYI 2**	**VNYI 3**	**VNYI 4**
1/2"	Polyethylene	PVC	**VPC 105**	**VPC 205**		
1"	Polyethylene	PVC	**VPC 110**	**VPC 210**	**VPC 310**	
1/2"	Kynar (PVDF)	Polypropylene	**VPP 105**	**VPP 205**		
1"	Kynar (PVDF)	Polypropylene	**VPP 110**	**VPP 210**	**VPP 310**	

Specifications

Electrodes	
Material	Stainless steel AISI316/DIN1.4401
Standard length	
VN, VNY	100 cm
VPC, VPP	50 cm
Diameter	
VN, VNY	Ø 5 mm
VPC, VPP	Ø 4 mm
Housing	
Connection	
VN	Cable (PVC), 2 m
VNY, VPC, VPP	Screw terminals

Environment	
Degree of protection	IP 67
Operating temperature	
VN, VNY	0 to 90°C (32° to 194 °F)
VPC	0 to 60°C (32° to 140 °F)
VPP	0 to 100°C (32° to 212 °F)
Storage temperature	
VN, VNY	-25° to 100°C (-13° to 212°F)
VPC, VPP	-20° to 110°C (-40° to 230°F)
Pressure	
VN, VNY, VPP	10 bar at 60°C
VPC	2 bar at 60°C
CE marking	IEC 529

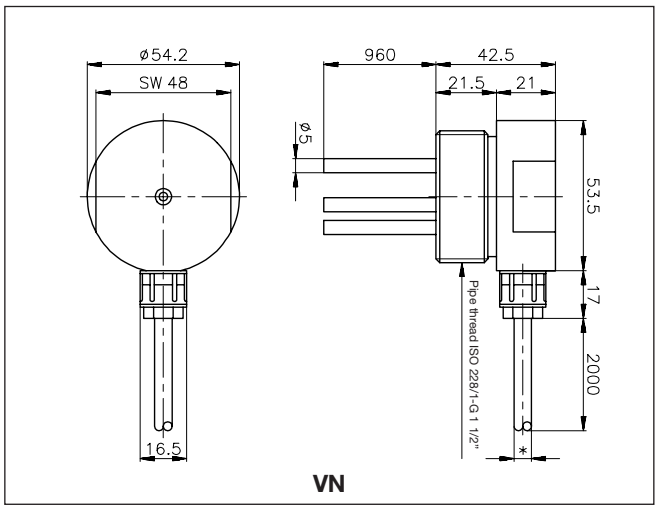
Mode of Operation

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.

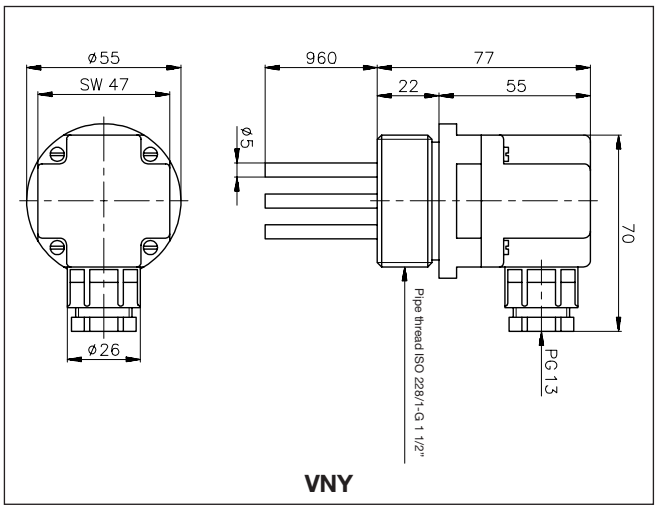
Accessories

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

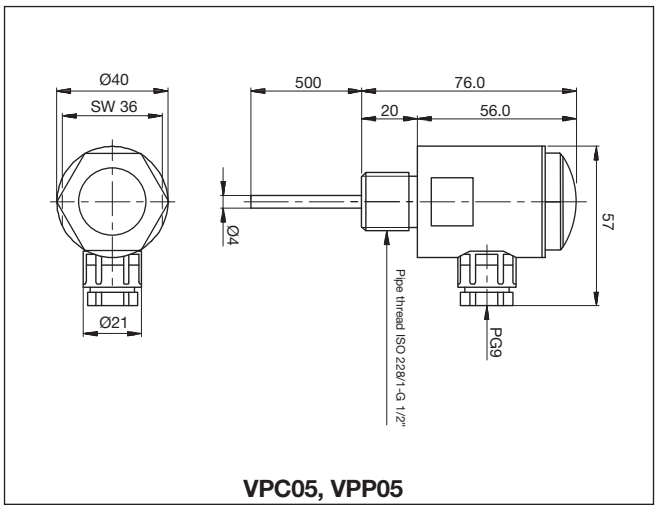
Dimensions



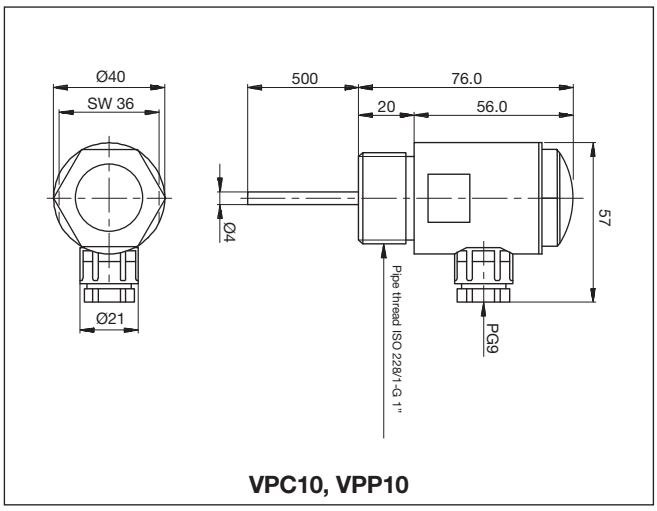
VN



VNY

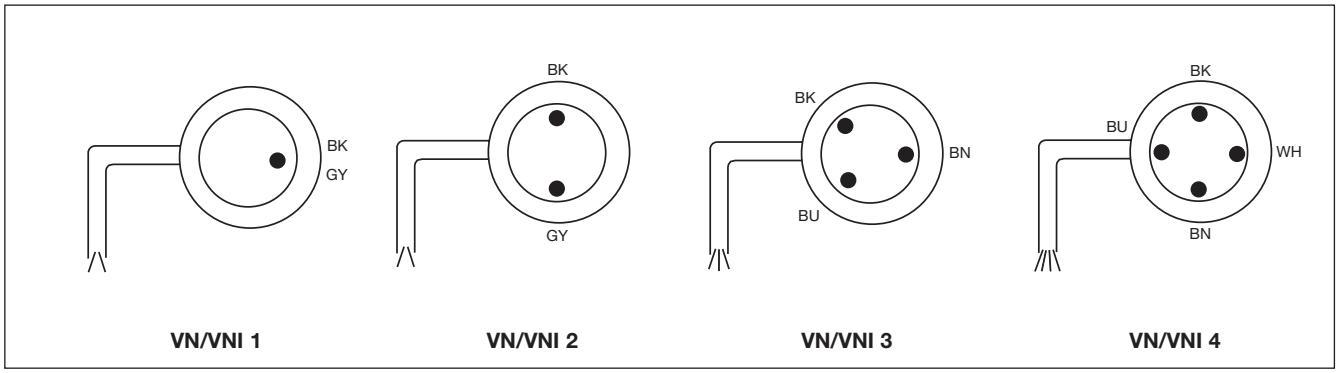


VPC05, VPP05



VPC10, VPP10

Wiring Diagrams



VN/VNI 1 **VN/VNI 2** **VN/VNI 3** **VN/VNI 4**

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Product	Code	Reference	Product link
Selected parameters SYSTEM Sensor HOUSING 1 1/2" pipe thread iso 228/1G SENSING FUNCTION 2 Electrodes MATERIAL Plastic Others SENSING FUNCTION 1 m MATERIAL Nylon 6 ADDITIONAL Polyethylene	VNI2		Buy on EAN