

# 2284 Ultrasonic Gap Switch



The Ultrasonic Gap Switch consists of Polyphenylene Sulphide (PPS) and is high corrosion resistant in most liquids. The gap switch is designed for high or low level alarm in different tank applications as well as pump control. However, if there is a liquid present, the signal will be transmitted across the gap and the integral electronics will switch the output circuitry to signal the presence of a liquid.

It can be mounted in any position in a tank using a 3/4" or 1" thread available in BSP and NPT thread forms.

## Features

- Relay output
- Corrosion resistant PPS body
- 1" and 3/4" threaded mounting
- Small in-tank dimensions
- Compact sensor for narrow spaces
- Self contained full plastic body
- No moving parts



## Applications

- Cooling Water
- Demineralized Water
- Water/Glycol Solutions
- Chemicals
- Pump Control/Pump Protection (Dry Run)

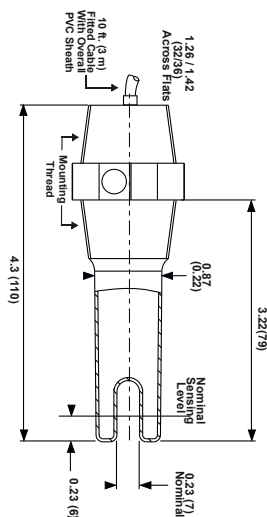


[www.gfps.com/level](http://www.gfps.com/level)

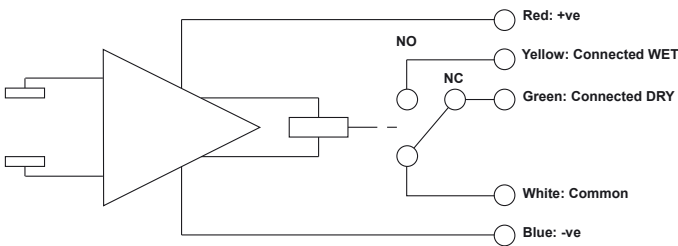
# Specifications

| General                     |   |
|-----------------------------|---|
| Type                        | 2284-Y-YYY                                      |
| Repeatability               | ±2 mm (0.08 in.)                                |
| Environmental               |   |
| Process Temperature         | -20 °C to +70°C (-4 °F to +158 °F)              |
| Ambient Temperature         | -20 °C to +70°C (-4 °F to +158 °F)              |
| Process Pressure (absolute) | 72.5 psi (5 bar)                                |
| Maximum Viscosity           | 5000 cSt at 20 C° (68 °F)                       |
| Enclosure                   |   |
| Enclosure Material          | PPS   |
| Cable Material              | PVC   |
| Probe socket material       | Stainless Steel 1.4571                          |
| Ingress protection          | IP 66/IP68 (3 m) / NEMA 6P (10 ft)              |
| Process Connection          | 3/4" or 1" BSP / NPT                            |
| Electrical                  |   |
| Power Supply                | 18 to 30 VDC / AC                               |
| Power Consumption           | ≥ 25 mA   |
| Max. Voltage Rating         | 30 VDC / AC                                     |
| Max. Current Rating         | 1 A at 30 V residual<br>0.25 A at 30V inductive |
| Response Time               | 50 ms wet-dry, 0.5s dry-wet                     |
| Cable Type                  | 5 core 7/0.2mm, 3m                              |
| Switching Function          | SPCO relay No/Nc                                |
| Standards and Approvals     |   |
| General Approvals           | CE, RoHS  |

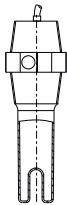
## Dimensions



## Wiring



## Ordering Information

|  | Mfr. Part No.            | Code               | Description                   |
|---|--------------------------|--------------------|-------------------------------|
|   | Versions with BSP thread |                    |                               |
|   | 2284-Q-4BC               | <b>159 300 270</b> | Body PPS, BSP 3/4", cable 3 m |
|   | 2284-Q-4BC               | <b>159 300 274</b> | Body PPS, BSP 1", cable 3 m   |
|   | Versions with NPT thread |                    |                               |
|   | 2284-Q-4NC               | <b>159 300 272</b> | Body PPS, NPT 1", cable 3 m   |