

Deeter Continuous Capacitive Sensor (DCS)

The Deeter Continuous Vertical Capacitive Sensor is a reliable alternative to our range of float switches, specifically designed for use in cryogenic applications.



Features Include:

- Microprocessor Based Pulse – Counting Technology
- Probe Lengths can be made to measure to suit specific applications – maximum 6m
- Suitable for non-conductive liquids only.
- Easy Push Button Set-up of Span and Zero Points.
- Zero-to-low maintenance required.
- Coming soon: ATEX/ IECEx Ia certification. Please contact the sales office for more information.

Specifications

| ELECTRICAL DATA | |
|--|---|
| Operating Voltage | 15 - 30VDC |
| Operating Current | < 50mA |
| Stem Capacitance (Air) | < 150pF / m |
| Resolution | < 2mm +/- 0.5mm |
| Operating Temperature (Head) | -20°C to +85°C |
| Stem Temperature (Standard Version) | -40°C to +120°C |
| Stem Temperature Limits (Low-temp Version) | -200°C to +200°C |
| Output Accuracy | ±1% @ 50% full scale deflection (20°C) |
| Current Output Signal 1 two wire | 4 - 20mA |
| Voltage Output Signal 2 two wire | 0 - 10Vdc |
| Zero, Span | 4 - 20mA |
| Calibration (Zero, Span) | Stored in NVM |
| Dielectric Constant of Liquid (- ε -) | > 1.4 |
| Response time (currently) | 1000ms |
| Response time (enhanced) | 250ms / 500ms |
| MECHANICAL DATA | |
| Max Operating Pressure (with 1" thread at Ambient Temperature) | 15 Bar |
| Enclosure Rating | IP66 / IP68 |
| Electrical Connections | Screw Terminals |
| Head Material | Aluminium (316L version available) |
| Stem Material | 316L Stainless Steel |
| Other wetted parts | PTFE |
| Maximum Stem length | Up to 6m |
| Mounting Orientation | Vertical |
| Cable Entry | M20 x 1.5p with cable gland fitted for 6-8mm cable |
| Mounting Thread | 1" BSP Parallel (standard, other threads available) |
| EMC Standards | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-2 |

Ordering Codes

Please contact the Sales Office on 01494 566 046 or sales@deeter.co.uk to discuss your exact requirements.

All electrical equipment should be installed by a qualified/certified electrician.

Deeter Electronics Ltd follows a policy of continual development of its products and reserves the right to change specifications and/or features without notice.