

CDL MINITILT

Static Roll and Pitch Sensor

The CDL MiniTilt is an OEM, surface or subsea pitch and roll sensor. It provides an accuracy of 0.05 degrees in both axes over the full 360 degree range. The unit can be provided in a surface or subsea (3000m or 6000m rated) package or can be supplied in an accurately machined mounting frame for OEM applications.

The CDL MiniTilt is highly compatible with existing pitch and roll sensors. It uses a bank of six inertial option switches to provide a total of 32 different output data formats.

The zero point can be factory set to any position. This allows for unusual mounting arrangements where the CDL MiniTilt can be placed horizontally rather than vertically. The zero point can be set to any mark on the 360 degree angle so even offset mounting arrangements can be handled.



PRODUCT FEATURES

- High accuracy (0.05°), low cost
- 3000m depth rated
- 6000m depth rated option
- Full 360° range
- Gyro heading input
- 32 data strings options



TELEDYNE TSS
Everywhereyoulook™

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TECHNICAL SPECIFICATIONS

PERFORMANCE

Data output rate	RS-232 and current loop
Baud rate	9600 (other rates available on request)
Parity	None
Range	360°
Resolution	0.01°
Accuracy	0.05°
Calibration points	128 (per sensor)
Temperature coefficient	0.003°
Repeatability	0.03°
Hysteresis	0.05° (average)
Noise	0.01°
Frequency response	0.4 seconds (typical)
8 Pin Connector (Burton or Binder)	1 Vin (5 - 30Vdc) 2 GND 3 CL Hi (output) 4 CL Lo (output) 5 RS-232 6 RS-232 7 CL Hi (gyro input) 8 CL Lo (gyro input)

PHYSICAL CHARACTERISTICS

Housing dimensions	85mm (d) x 104mm (h)
Weight in air	1.15kg
Weight in water	0.55kg
Dimensions (no connector)	104mm (h) x 87mm (d)
Weight of transit case	1.5kg
Dimensions of transit case	240mm x 180mm x 170mm
Voltage	3 - 50Vdc
Current consumption	<10mA (@12Vdc typical)
Temperature range	-30°C to +55°C operating, -30°C to +65°C storage
Mounting details	M4 65mm x 65mm - 4 holes

SYSTEM

MTBF	N/A
Warranty	12 months international warranty including parts and labour
Export Compliance (ECCN)	No Licence Required

COMPANY WITH
MANAGEMENT SYSTEMS
CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

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