



Available for **QUICK DELIVERY**
Contact RST for Details

SPECIFICATIONS	
Range	±30°
Resolution	±0.0002° (0.004 mm/m) ¹
Sensor Precision	±0.0013° (0.02 mm/m) ¹
	±0.0005° (0.01 mm/m) ²
Sensor 24hr Stability	±0.03 mm/m ¹
	±0.01 mm/m ²
Sensor	MEMS Accelerometer
Temperature Dependent Uncertainty	±0.016 mm/m/°C (±0.001°/°C), for ±5° from vertical
	±0.033 mm/m/°C (±0.002°/°C), for ±15° from vertical
Temperature Accuracy	±0.5 °C (0 °C to 60 °C)
	±1.0 °C (-40 °C to 60 °C)
Temperature Resolution	0.06 °C
Operating Temperature	-40 to 60°C (-40 to 140°F)

FIBREGLASS BEAM (MOUNTING BRACKETS INCLUDED)	
Beam Dimensions	51 X 51 mm (2 X 2 in.)
Gauge Length	0.5, 1, 1.5, 2 or 3 m (1.5, 3, 5, 10 ft.)

1: 99% Confidence Interval
2: 68% Confidence Interval

WORKS WITH **flexDAQ** DATA LOGGERS
READY TO RUN pre-assembled pre-wired pre-tested pre-programmed

	PRODUCT CATEGORY: INCLINOMETERS + TILT SENSORS
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Tilt Beam (MEMS)



Tilt Beams measure differential movements in structures and consist of a MEMS sensor mounted on a rigid, fiberglass beam. The beam is mounted on anchor bolts set into the structure. They can be installed on any structure by joining together lengths of beams and are extremely accurate in generating movement profiles over long distances. Readings are taken with a manual readout by connecting at the end of the single cable linking all the bussed beams, or with a data logger at a remote monitoring station. Site specific, near-real time monitoring software is available.

> APPLICATIONS	
Monitoring the effects of tunneling and excavating on nearby buildings and other structures.	
Monitoring the movement of tunnel walls and railway tracks.	
Monitoring the stability of structures where slope instability is occurring.	
Monitoring the deflection of bridges and beams under load.	
> FEATURES	
Simple construction with no moving parts to damage.	
Convenient to install on any structure and easy to use.	
Beams can be linked together to provide detailed movement data over long distances.	
Digital and analog outputs available.	
In-Place Tilt Meter or Tilt Logger can be mounted on beam.	
Easily adaptable to data logging.	
Integral temperature sensor.	
Fibreglass composite beams minimize thermal effects.	
> BENEFITS	
✓ Increase Safety	
✓ High Reliability	
✓ High Accuracy	
✓ Custom Options	
ORDERING	
ITEM	PART #
MEMS HORIZONTAL TILT BEAM	
Digital Bus Output, 0.5m Tiltbeam	IC6018B-0.5M
Digital Bus Output, 1.0m Tiltbeam	IC6018B-1.0M
Digital Bus Output, 1.5m Tiltbeam	IC6018B-1.5M
Digital Bus Output, 2.0m Tiltbeam	IC6018B-2.0M
Digital Bus Output, 3.0m Tiltbeam	IC6018B-3.0M
MEMS VERTICAL TILT BEAM	
Digital Bus Output, 0.5m Tiltbeam	IC6083B-0.5M
Digital Bus Output, 1.0m Tiltbeam	IC6083B-1.0M
Digital Bus Output, 1.5m Tiltbeam	IC6083B-1.5M
Digital Bus Output, 2.0m Tiltbeam	IC6083B-2.0M
Digital Bus Output, 3.0m Tiltbeam	IC6083B-3.0M
READOUTS & DATA LOGGERS	
Rugged Handheld PC	IC32000-NAUTIZ
Digital Interface for Rugged Handheld PC with Software	ELGL4010
RSTAR DT2485 DT-Bus Data Logger	DT2485
FlexDAQ Dataloggers and RSTAR Affinity Dataloggers	
ACCESSORIES	
Tiltbeam Installation Kit, Groutable Anchor Kit	IC6020
Tiltbeam Installation Kit, Expandable Anchor Kit	IC6021
Top Cable with Male M12, 5m	IC6050-M-5M
Top Cable with Male M12, 10m	IC6050-M-10M
Top Cable with Male M12, 20m	IC6050-M-20M
M12 Cable Plug Female	IC6050-F-Plug
Top Cable with Female M12, 5m	IC6050-F-5M
Top Cable with Female M12, 10m	IC6050-F-10M
Top Cable with Female M12, 20m	IC6050-F-20M
M12 Cable Plug Male	IC6050-M-Plug
Extension Cable, Male-Female M12 - 5m Sensor to Sensor	IC6030-5M