



The TRS.184 is an inclinometer sensor based on a double CPU, a double 3D-MEMS accelerometer and a double gyroscope, in a fully redundant circuit scheme.

Using a special algorithm, the device can filter and improve the measure accuracy in presence of vibration and acceleration loads.

It can be implemented as SLAVE in a CAN network.

The polyurethane resin case makes the sensor suitable for use on machines that operate in harsh work environments.

It's E3 certified UNECE regulation 10 automotive.



TECHNICAL FEATURES

MASTER CODE	TRS.184
POWER SUPPLY	9-36 VDC / CURRENT CONSUMPTION 10 mA AT 24 VDC
CAN BUS	1 PORT 2.0B COMPLIANT - (11, 29 BIT) - ISO 11898 - UP TO 1MBIT/S
CAN BUS PROTOCOLS	CAN OPEN (CIA DS410 DEVICE PROFILE FOR INCLINOMETER, WITH DS306 COMPLIANT EDS FILE)
TECHNOLOGY	3D-MEMS ACCELEROMETER AND GYROSCOPE
SAFETY	DOUBLE CPU AND DOUBLE SENSOR
CONNECTION PORT	WIRED, WITH SUPERSEAL/M12 CONNECTOR
LED	N.1 BI-COLOR STATUS LED
CASE	PUR MOUNTING BRACKET: STEEL, WITH CATAPHORESIS TREATMENT
WORKING TEMPERATURE	-40°C +85°C (TEMPERATURE DRIFT-REDUCTION)

MEASURE FEATURES

OPTIONS	ANGLE – TILT
FILTERING	USER CONFIGURABLE
RESOLUTION	UP TO 0,01°
ADDITIONAL DATA	3-AXIS ACCELERATION ACCURACY: 0,5 mg/sample
	3-AXIS ROTATION SPEED ACCURACY: 0,03 (deg/s)/sample





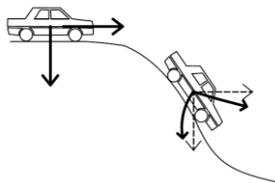
ELECTRICAL CONNECTIONS

CABLE + CONNECTOR SUPERSEAL CONNECTOR 4 POLES CABLE L: 300 mm	PINOUT		
	1	POSITIVE POWER SUPPLY	
	2	CAN L	
	3	GND	
CABLE + CONNECTOR M12 MALE CONNECTOR 5 POLES CABLE L: 50 or 300 mm	PINOUT		
	1	CAN GND	
	2	POSITIVE POWER SUPPLY	
	3	GND	
	4	CAN H	
CABLE CABLE L: 1000 mm	PINOUT		
	BN	POSITIVE POWER SUPPLY	
	WH	CAN L	
	BU	GND	
	BK	CAN H	

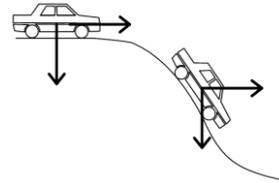
FEATURES

DEVICE SUITABLE FOR MOTION APPLICATION WITH BASIC CONSTANT REFERENCE

ACCURACY OF A TRADITIONAL DEVICE



ACCURACY WITH TRS.184



MEASURE OPTIONS

S00	S01	S04	S10
TRANSDUCER IN ANGLE MEASUREMENT MODE ON X, Y, Z AXES, WITH CONFIGURABLE PARAMETERS	TRANSDUCER IN ANGLE MEASUREMENT MODE ON Z AXLE	TRANSDUCER IN TILT MEASUREMENT MODE ON X AND Y AXES	TRANSDUCER IN ROTATION MEASUREMENT MODE ON Z AND Y AXES



ALMEC
MECHATRONICS

NOTE