

## TRS.ETMB

## THREEAXIAL ANGULAR SAFETY SENSOR



- Double CPU and a double 3D MEMS accelerometer, in a fully redundant circuit scheme, with a safety-based relay output switch
- Logic output software configurable
- Differentiates the X-, X+, Y-, Y+ axes as well as to get separate offset
- Implementable as a SLAVE in a CAN network
- Polyurethane resin case

TECHNICAL FEATURES				
MASTER CODE	TRS.ETMB			
POWER SUPPLY	9-36 VDC / CURRENT CONSUMPTION 30 mA AT 24 VDC (STAND BY MODE)			
	2 SAFETY RELAY DIGITAL ON/OFF TRIGGER OUTPUT			
	REDUNDANT OUTPUT CIRCUIT SCHEME			
ОUТРUТ	OUTPUT CURRENT: MAX 2 A			
	4 INDEPENDENT THRESHOLD ANGLES SETUP (X-, X+, Y-, Y+)			
	THRESHOLD PROFILE WINDOW: RECTANGULAR OR TOROIDAL			
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)			
LED	NR.1 STATUS LED			
MEASURE OPTIONS	TILT / ANGLE			
TECHNOLOGY	3D MEMS ACCELEROMETER			
SAFETY	DOUBLE CPU AND DOUBLE SENSOR			
CONNECTION PORT 1	0,60 m CABLE TPE 0,50 m CABLE PUR WITH 8 POLES DEUTSCH CONNECTOR			
CASE	ENCAPSULATED IN PUR RESIN - SELF-EXTINGUISHING UL94 (V0)			
WORKING TEMPERATURE	-40°C +80°C <b>□ (%)</b> □ (%) □ (			





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**MEASURE FEATURES** 



## TRS.ETMB

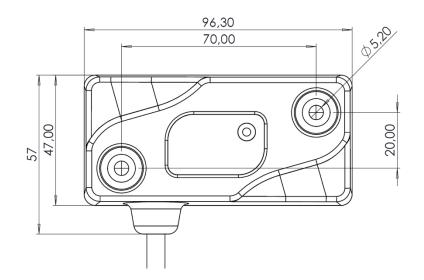
## THREEAXIAL ANGULAR SAFETY SENSOR

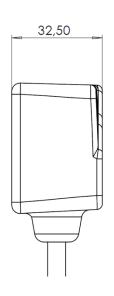
OPTIONS	ANGLE – TILT
FILTERING	USER CONFIGURABLE
RESOLUTION	UP TO 0,01°
REDUNDANCY DIFFERENCE MEASURE	LESS THAN 1°
ELECTRONIC FEATURES	
SLAVE USAGE	EDS FILE
PROGRAMMING	FIRMWARE UPLOAD BY CAN BUS WITH ALOADER SOFTWARE TOOL
CONFIGURING	THROUGH ALTILT CONFIG
CPU	DOUBLE 16 bit MICROCONTROLLER CORE
SAMPLE TIME	LESS THAN 5 ms
STANDARDS	

STANDARDS		
ELECTROMAGNETIC EMISSIONS	EN 61000-6-4// EN 55011 (RF RADIATE)	
ELECTROMAGNETIC IMMUNITY	EN 61000-6-2// EN 61000-4-2/3/4/6	
IP	BOX: IP68	
ΜπFd	96,86 YEARS CALCULATED ACCORDING TO THE IEC61709 (SIEMENS SN29500), WITH ENVIRONMENTAL FACTORS 3K7 (IEC60721) RATED RELAY CYCLES: 20000/YEAR	
PERFORMANCE AND SAFETY INTEGRITY LEVEL	PLd – SIL2 (DUAL-CHANNEL INTERNAL SCHEME)	

IN ACCORDANCE WITH THE EN50498 THE DEVICE MEETS THE TECHNICAL SPECIFIC REQUIREMENTS OF 2004-104 DIRECTIVE (AUTOMOTIVE). THE DEVICE IS EMC 2004/108 COMPLIANT.

# SIZE (mm)











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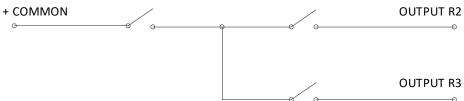
## THREEAXIAL ANGULAR SAFETY SENSOR

CONNECTION OPTIONS					
	1	BN	POSITIVE POWER SUPPLY		
CABLE: PUR , 0,50m LENGTH	2	WH	GND POWER SUPPLY		
CONNECTOR: DEUTSCH DT04-8P	3	YE	CAN L		
	4	OR	CAN H		
	5	BU	OUTPUT R3		
	6	вк	OUTPUT R2		
	7	VT	ZERO		
	8	GY	POSITIVE COMMON POWER SUPPLY R1		
CABLE: TPE , 0,60m LENGHT *TWISTED WIRES ON COLOUR COUPLES CONNECTOR: n.a.	*	BN	POSITIVE POWER SUPPLY		
		WH	GND POWER SUPPLY		
	*	YE	CAN L		
		GN	CAN H		
	*	BU	OUTPUT R3		
		RD	OUTPUT R2		
	*	PK	ZERO		
		GY	POSITIVE COMMON POWER SUPPLY R1		

# **OUTPUT FEATURES**

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**OUTPUT CIRCUIT SCHEME** 



MEASURE OPTIONS		
S00	S01	S04
TRASDUCER WITH FULLY CONFIGURABLE ANGLE MEASUREMENT MODE AND FILTERS SETUP	TRASDUCER WITH ANGLE MEASUREMENT MODE ONLY ON Z AXIS (ANGLE MEASUREMENT)	TRAS DUCER WITH ANGLE MEAS UREMENT MODE ON X & Y AXIS (TILT MEASUREMENT)







