

TRC-3300

Triaxial DC Accelerometer with 4-20 mA output

Data sheet



- Frequency range: DC-500 Hz
- Current output: 4-20 mA
- Output range: ± 2 g
- Weight: 107 grams
- Supply voltage: 12-30 VDC

Industrial triaxial accelerometer with DC response and current output

The TRC-3300 is a triaxial low frequency accelerometer with 4-20 mA current output and frequency response from DC to 500 Hz. The sensor has a measurement range of ± 2 g.

TRC-3300 can be used in a wide range of applications such as structural vibration monitoring, slow rotating machines, condition monitoring, research and development. TRC-3300 can be optional environmental protected according to IP65, for use in harsh industrial environments and for indoor and outdoor applications. It is mounted to the structure by adhesive or screw-mount (M6 or M8).

Output and power is provided through a 4-pin LEMO connector. Accelerometer cables are available in user defined lengths.

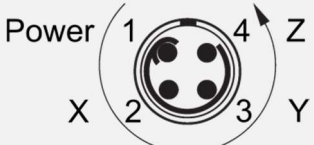

TRC-3300 Technical Data

Performance	
Range (Full scale)	±2 g (4.20 mA)
Sensitivity (for all axes)	4 mA/g
Frequency response (for all axes)	0-500 Hz, ±3dB
Resonance frequency, Nominal	>1000 Hz
Output noise, Nominal	3 mg RMS
Amplitude non linearity (%FS)	0,3%
Transverse sensitivity, Nominal	5%
Shock limit	3000 g

Electrical	
Zero acceleration output (DC offset)	12 mA ±10%
Supply voltage	12-30 VDC
Output overvoltage protection	Maximum supply voltage output 30 V
Isolation	Signal optically isolated, shield connected to case.

Physical	
Weight	107 grams
Size (Height x Width x Depth)	31 x 38 x 52 mm. excluding mounting flanges
Mounting	Adhesive or screw-mount (M8 or M6)
Cable, connection	Shielded PCV Ø5,3 mm, 4-pin LEMO connector terminating to pigtail
Connector - Sensor	4-pin LEMO: EGG.0B.304.CLL
Connector - Cable CBL-4PCON-P-x	4-pin LEMO: FGG.0B.304.CLAD4Z2
Material, housing	Aluminium

Environmental	
Operating temperature range	-40°C to +100°C
Thermal coefficient of sensitivity	+0,05%/°C
Humidity	Optionally environmental sealed according to IP65

Electrical Wiring - Cable	
CBL-4PCON-P-X - 4-pin LEMO (male)	CBL-4PCON-P-X - pigtail
 <p>Power 1 4 Z X 2 3 Y</p> <p><i>Cable solder side</i></p>	 <p>(RED) POWER (YELLOW) X (GREEN) Y (BLUE) Z</p>

Contact information

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Ordering options

		A	B
	TRC-3300-	<input type="text"/>	<input type="text"/>
A) Mounting	3 = Adhesive & Screw mount		
B) Sealing	1 = Not classified		
Accessories for TRC-3300			
Accelerometer cable, shielded, 4-pin LEMO male connector to pigtail			
	CBL-4PCON-P-	A	<input type="text"/>
A) Cable length	x = Length in meters		