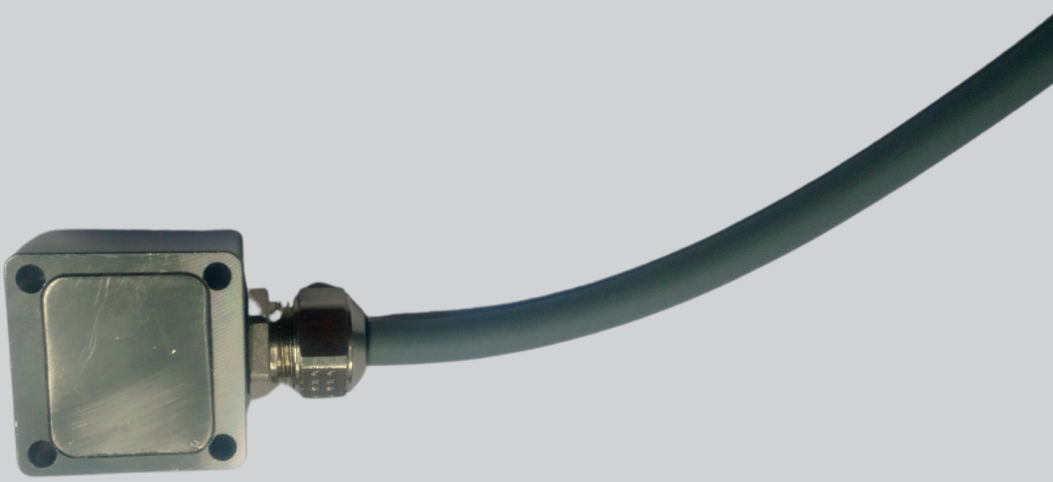
TriACCx datasheet

3-axis acceleration sensor with voltage or current output and ± 2 up to 40 g measurement range

PRELIMINARY



Sensor with micromechanical spring-mass-system continuously measures the acceleration and provides three output channels.

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General characteristics

- Wide bandwith
- Measurement range ±2g, ± 4g, ± 8g, ± 10g, ± 20g, ± 40g
- Low noise
- High temperature stability
- Metal housing (IP67)

Specifications

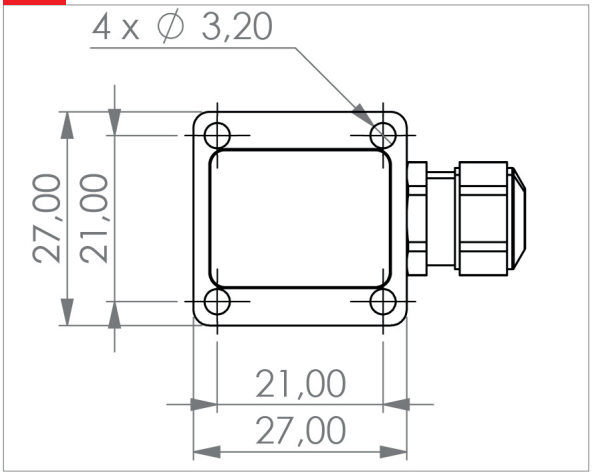
Parameter				Unit
Sensitive axis	3 (x, y, z)			
Measurement range	± 2 / ± 4 / ± 8 / ± 10 / ± 20 / ± 40			g
Noise	22.5 at ± 2 g 75 at ± 10 g			µg/√Hz
Output options				
Voltage output Current output	0.5 ... 2.5 4 ... 20			V mA
Nonlinearity	0.1			% FS
Cross axis sensitivity	1			% FS
Sensitivity	mV/g 500 250 120 100 50 25	mA/g 4 2 1 0.8 0.4 0.2	 at ± 2 g at ± 4 g at ± 8 g at ± 10 g at ± 20 g at ± 40 g	
Sensitivity vs. temperature	0.01			%/K
0g offset	1.5 12			V mA
0g offset vs. temperature	± 0.15 mg/K at ± 2 g ± 0.75 mg/K at ± 10 g			
Supply voltage	9 ... 30			VDC
Power consumption	< 1			W
Lowpass cut-off-frequency (-3dB)	Customizable up to 1000 Hz			
Interface	Cable, 5 x 0.14 mm², shielded; length 2.0 m			

Environmental data

Parameter		Unit
Shock resistant - unpowered	5000	g
Operating temperature	-40 ... +85	°C
Protection class	IP67	
Housing material	Stainless steel or aluminum	

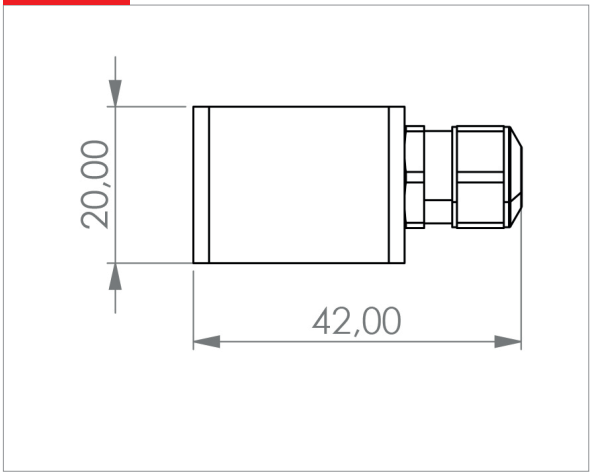
Mechanical drawings

Top

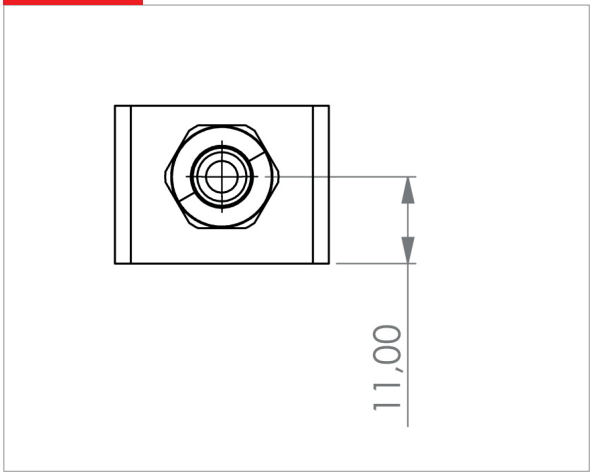


All geometrical dimensions in mm

Side view

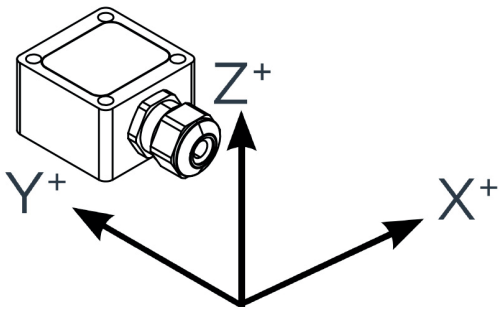


Front view



Cable assignment and direction

Wire	Assignment
brown	VDC supply
white	Supply ground
yellow	Signal output x-axis
grey	Signal output y-axis
green	Signal ground z-axis



Product key

TriACCx##

Output option:
U: voltage output
I: current output

Measurement range:
2: ± 2 g
4: ± 4 g
8: ± 8 g
10: ± 10 g
20: ± 20 g
40: ± 40 g

Further options on request.

Disclaimer