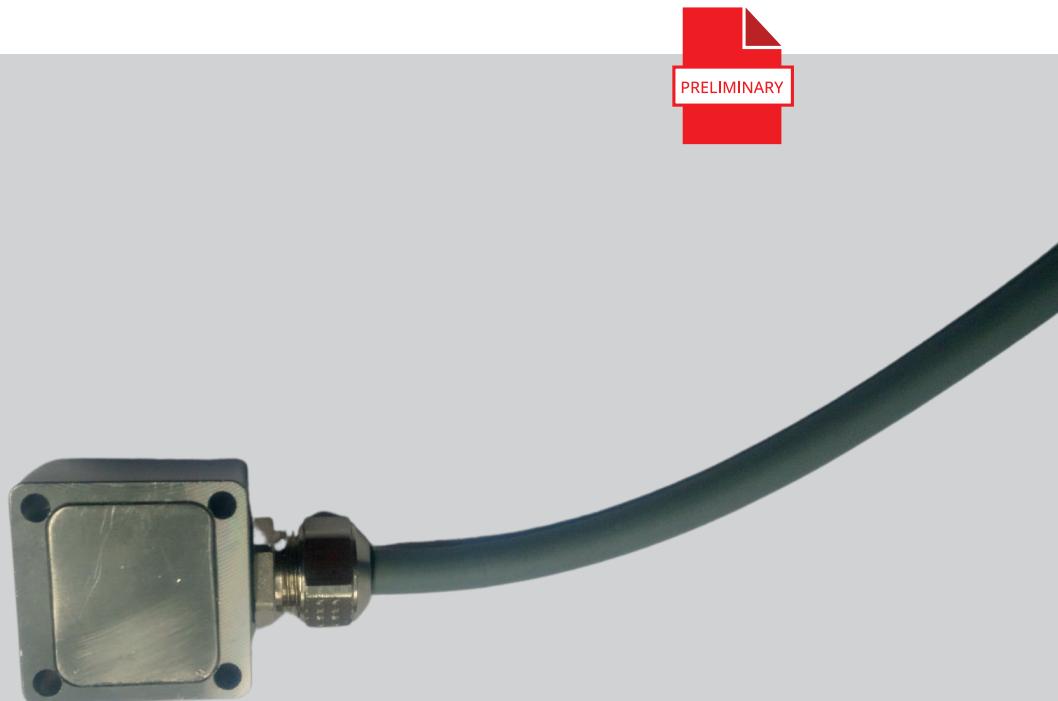


# TriACCx datasheet

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



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

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## General characteristics

- Wide bandwidth
- Measurement range  $\pm 2\text{g}$ ,  $\pm 4\text{g}$ ,  $\pm 8\text{g}$ ,  $\pm 10\text{g}$ ,  $\pm 20\text{g}$ ,  $\pm 40\text{g}$
- Low noise
- High temperature stability
- Metal housing (IP67)

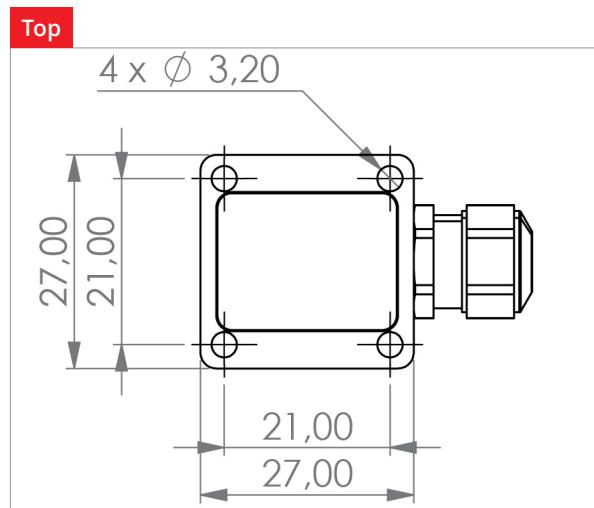
## Specifications

Parameter	Unit	
Sensitive axis	3 (x, y, z)	
Measurement range	$\pm 2 / \pm 4 / \pm 8 / \pm 10 / \pm 20 / \pm 40$	g
Noise	22.5 at $\pm 2\text{g}$ 75 at $\pm 10\text{g}$	$\mu\text{g}/\sqrt{\text{Hz}}$
Output options		
Voltage output	0.5 ... 2.5	V
Current output	4 ... 20	mA
Nonlinearity	0.1	% FS
Cross axis sensitivity	1	% FS
Sensitivity	mV/g	mA/g
	500	4 at $\pm 2\text{g}$
	250	2 at $\pm 4\text{g}$
	120	1 at $\pm 8\text{g}$
	100	0.8 at $\pm 10\text{g}$
	50	0.4 at $\pm 20\text{g}$
	25	0.2 at $\pm 40\text{g}$
Sensitivity vs. temperature	0.01	%/K
0g offset	1.5	V
	12	mA
0g offset vs. temperature	$\pm 0.15\text{ mg/K}$ at $\pm 2\text{g}$ $\pm 0.75\text{ mg/K}$ at $\pm 10\text{g}$	
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 mm <sup>2</sup> , shielded; length 2.0 m	

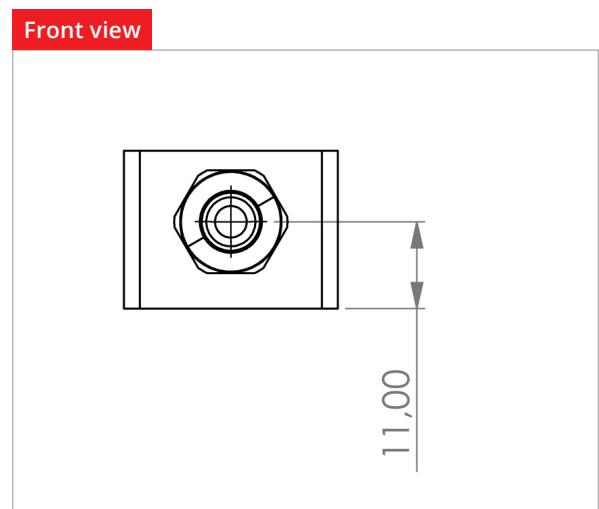
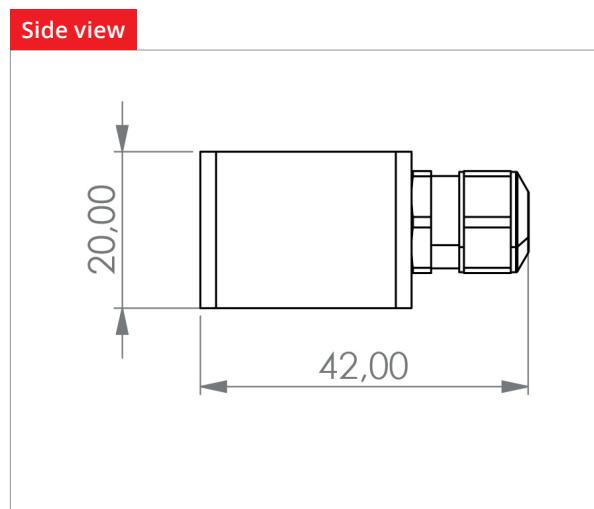
## Environmental data

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

## Mechanical drawings

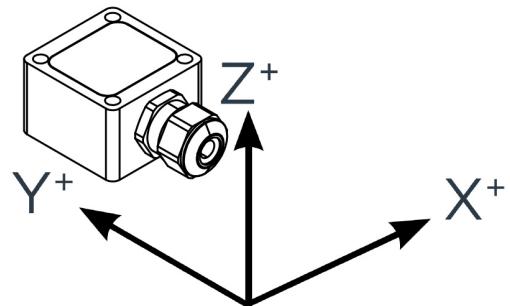


→ All geometrical dimensions in mm



## 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:	Measurement range:
U: voltage output	2: $\pm 2$ g
I: current output	4: $\pm 4$ g
	8: $\pm 8$ g
	10: $\pm 10$ g
	20: $\pm 20$ g
	40: $\pm 40$ g

Further options on request.

## Disclaimer

All rights reserved. All information in this data sheet are based on latest knowledge, results of practical experience and tests carried out. Earlier specifications are hereby invalid. All specifications – technical included – are subject to change without notice. It is the customer's responsibility to ensure that the performance of the product is suitable for customer's specific application. No liability is accepted for indirect damage, in particular for the use or inability to use the product. Any liability we may have is limited to the value of the product itself.