

AS28e 20g...100g



Description

The acceleration sensor is based on the strain gage technology.

The accelerometer sensor is characterized by small dimensions and a high resonance frequency.

The AS28 can be used, for static measurements from 0 Hz, for example for measuring building vibrations or vibrations on bridges and other constructions.

The temperature drift of the zero point noticed with a maximum of 0.2% / ° C, because semiconductor strain gages are used.

The input range of the measuring amplifier must be large enough. (when full range should be used) The output signal of the AS28 is approximately 10 mV / V at full measuring range. The measuring amplifier GSV-1, GSV-2 and GSV-3 are available with matching input sensitivities of ± 5 , ± 10 and ± 20 mV / V.

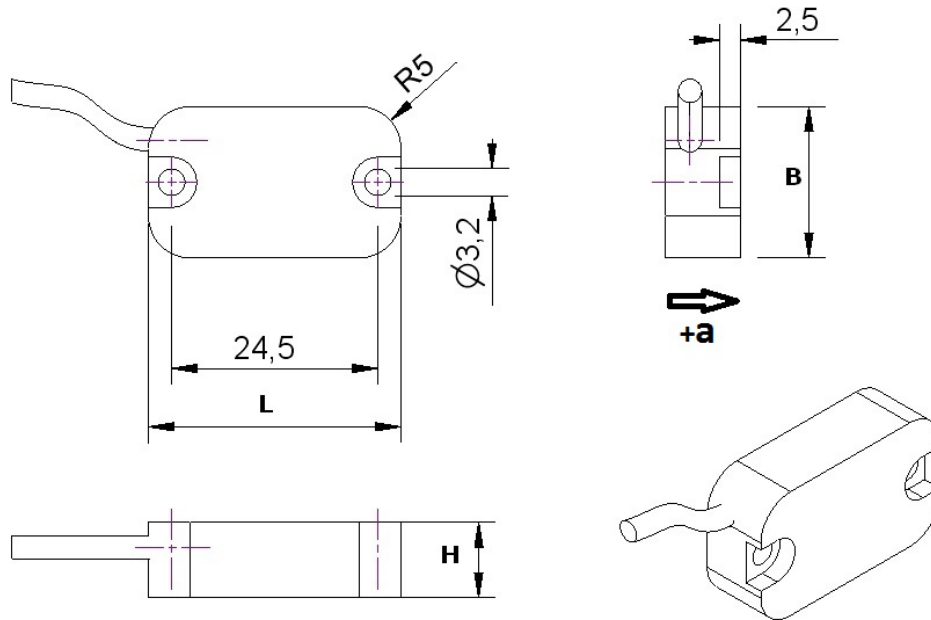
The variant AS28e includes integrated electronics.

The output is ± 2.00 volt for all sensors AS28e at full range.

The zero point is set at 2.5 volt.

The output signal of variant AS28 without electronic is within the range of 6 .. 15 mV / V and it is reported individually on a separate test protocol.

Dimensions



	H	L	B
AS28e	15	30	22
AS28	9	30	18

a+ positive Beschleunigung („acceleration“)

Technical Data

Electrical Data

Output resistance	100	Ohm
Insulation resistance	2	GOhm
Zero signal	15	%FS
Rated output	2	V/FS

Precision data

Accuracy class	1%
Relative linearity error	0.5 %FS
Temperature effect on zero signal	0.2 %FS/K
Temperature effect on characteristic value	0.1 %RD/K
Cross-sensitivity	1 %RD

Supply

Supply voltage f	7 ... 28	V
Current consumption f	5 ... 10	mA

Connection Data

Connection type	4 conductor open
Name of the connection	STC-31V-4
Cable length	3 m

Environmental data

Rated temperature range f	-10 ... 70 °C
Operating temperature range f	-10 ... 86 °C
Environmental protection	IP66

Basic Data

Type	Beschleunigungssensor
Maximum acceleration	1000 g
Fastening	schrauben (2xM3)
Material	Aluminium alloy

Abbreviation: RD: „Reading“; FS: „Full Scale“;

1) The exact sensitivity is indicated in the test report;

Pin Configuration

Symbol	Description	Wire colour
Ub	Supply voltage	red
GND	GND supply	black
Ua	Output signal	green
GND	GND output signal	white

accessories

Description		Description
	AS28-cube	Mountingblock for AS28; 50mm x 35mm x 35mm;
	AS28-plate	Magnetic plate, zinc plated, 60mm x 40mm x 1,9mm