



## Vibration sensor



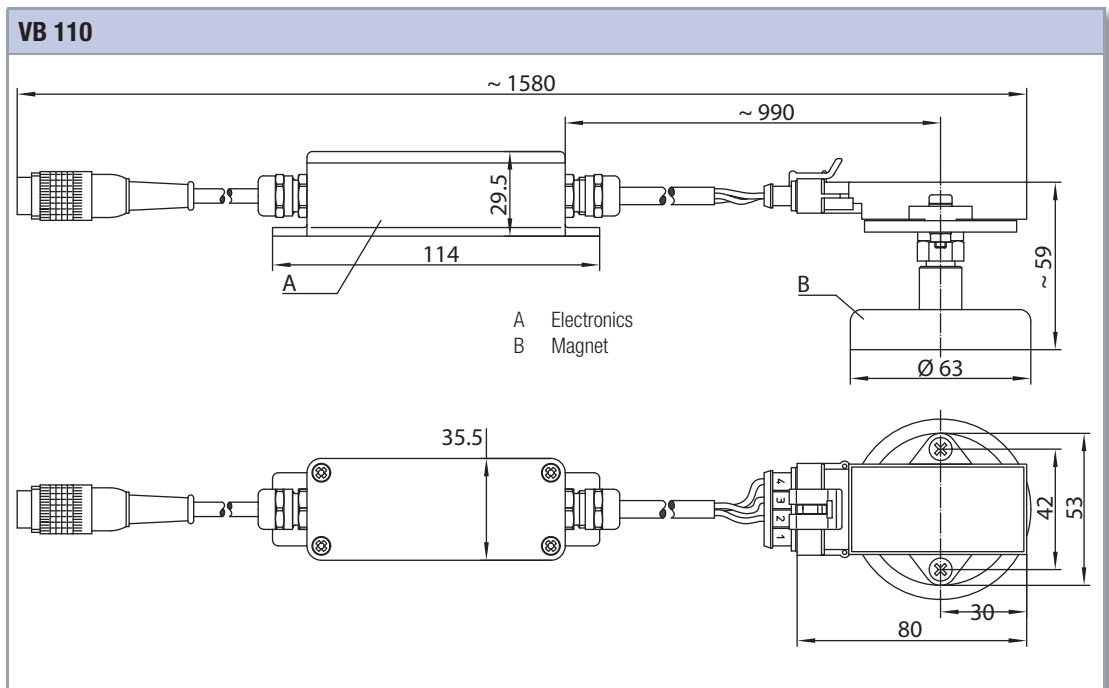
The vibration sensor comprises a capacitive acceleration sensor for data collection with short response time under serious environmental conditions. It is mounted on a magnetic foot that can be used to attach the sensor to any metallic surfaces. It reports vibrations by frequency and therefore can be connected to all Hydrotechnik measuring instruments.

### Calibration values

Enter calibration value „1“ when used with MultiSystem 5060 and „1,000“ when used with MultiHandy 3010.

Qualities	
Measuring principle	capacitive acceleration sensor
Output signal	frequency (rectangular signal)
Signal height	$U_0 - 2V$
Frequency range	1 ... 100 Hz
Electrical measuring connector	5 pole device connector, M16 x 0.75
Mechanical connection	magnetic foot
Protection type (EN 60529 / IEC 529)	IP 66 (sensor element)
Material casing	plastic, resistant against petrol, oil, salt and certain chemicals (listing on request)
Signal type	three wires
Supply voltage $U_b$	8.5 ... 30 VDC
Current consumption	< 15 mA
Error limit	< $\pm 2\%$
Resolution	< 1 mg
Non-linearity	< $\pm 2\%$ of final value
Hysteresis	cannot be measured
Environmental temperature	-20 ... +85 °C
Storage temperature	-20 ... +85 °C
EMC test	on request
Shock stability	> 1,000 g

Pin assignment	Frequency
	Pin 1 = signal +
	Pin 2 = - $U_b$ / signal - GND
	Pin 3 = + $U_b$
	Pin 4 = free
	Pin 5 = free



Measuring range	Weight	Order number
g	g	
± 50	547	3183-71-01.00