

AN1068

STRAIN RING





Main features

- Fast and easy strain measurement on cylinders (magnetic or not)
- · Clamp the strain ring around the tie bar and measure
- 0,5% accuracy
- · Without calibration
- Ideal for cyclical applications, e.g. clamping force measurements on presses

The strain ring type AN1068 is based on the proven presson technology of strain gages.

Specially developed strain gages are pressed onto the surface to be measured that friction replaces bonding the measurements can be taken instantly, without calibration necessary.

The mounting is easy: mount the sensor with the torque of 3 Nm onto the cylinder, connect the cable and measure.

The surface at the measuring location does not need to be chemically clean, just clean it with some solving agent. All parts of the sensor are made in stainless materials.

The surface at the measuring location should be free of any loose material (e.g. rust, paint etc).

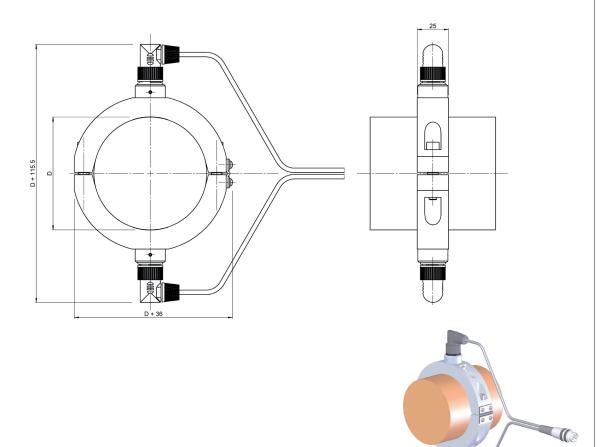
The zero-offset of the pressed on strain gages after mounting is usually high our amplifiers are able to handle this reset by the simple push of a button or a reset signal.

TECHNICAL DATA

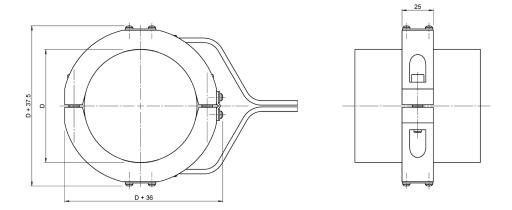
Strain gauge type	Foil (GF = 2.0)
Bridge resistance	350Ω
Measuring range	±1000με
Sensitivity tolerance	± 0.2%
Transverse sensitivity	$0.9 \pm 0.2\%$
Accuracy	<±0.5% FS
Linearity	<±0.5% FS
Hysteresis	<±0.2% FS)
Repeatability	<±0.1% FS
Nominal input resistance	350Ω
Supply voltage	5VDC (max 8VDC)
Supply current	<15mA
Operating temperatur range	055°C
Storage temperatur range	055°C
Overload capability	indefinite (offset occurs)
Protection class	IP66
Case material	Anodised aluminium
Cover material	Steel

MECHANICAL DIMENSIONS

Connection D :



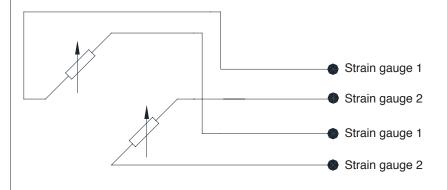
Connection C:



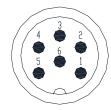


ELECTRICAL CONNECTIONS

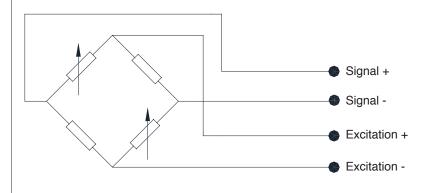
Version 2/4 bridge



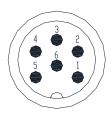
CONNECTOR OUTPUT :
1
4
2
5



Version full bridge (only available with Option C, Cable and Connector)



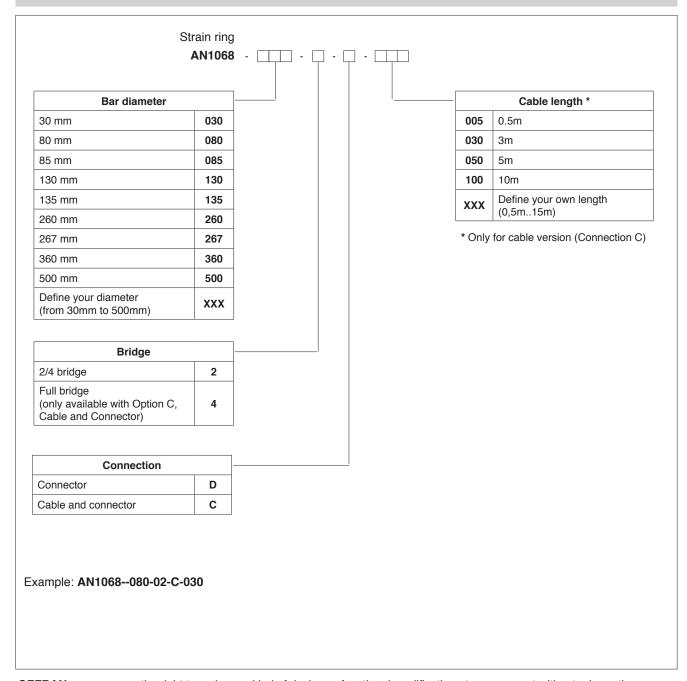
CONNECTOR OUTPUT :
4
5
1-2
3-6



OPTIONAL ACCESSORIES

	Accessories		
Υ	' - cable (for 2x1/4 bridge)	3 meter	C-682-030-680-Y
		5 meter	C-682-050-680-Y
		10 meter	C-682-100-680-Y

ORDER CODE



GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.



GEFRAN

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