

AN1068

STRAIN RING





Main features:

- Fast and easy strain measurement on cylinders (magnetic or not)
- Very easy installation (need only 2 screw's)
- 0.5% accuracy
- · Without calibration
- All parts of the sensor are made in stainless materials.
- Ideal for cyclical applications, e.g. clamping force measurements on presses

The strain ring AN1068 is based on the proven press-on technology of strain gages. The strain ring presses strain gages under the stainless protective foil that strongly onto the surface to measured the friction. It replaces the bonding normally used to fix strain gages, without calibration necessary.

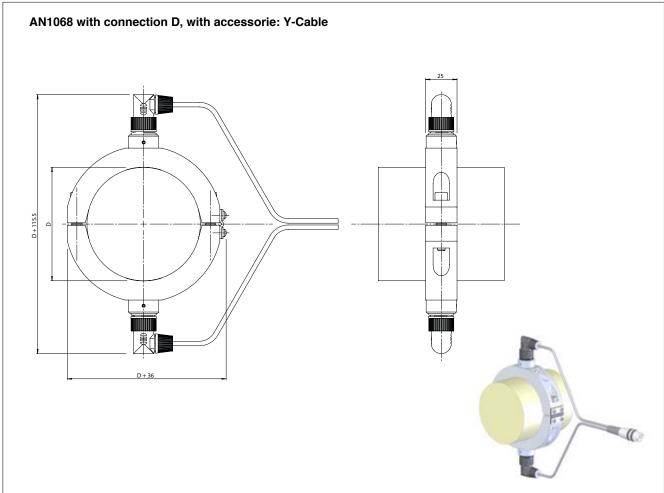
Mounting: Clamp the strain ring with 2 screw's (torque of 3Nm) around the tie bar. Connect the cable for measurements. The surface at the measuring location should be free of any loose material (e.g. rust, paint etc). The measuring location does not need to be chemically clean, just clean it with some solving agent.

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.

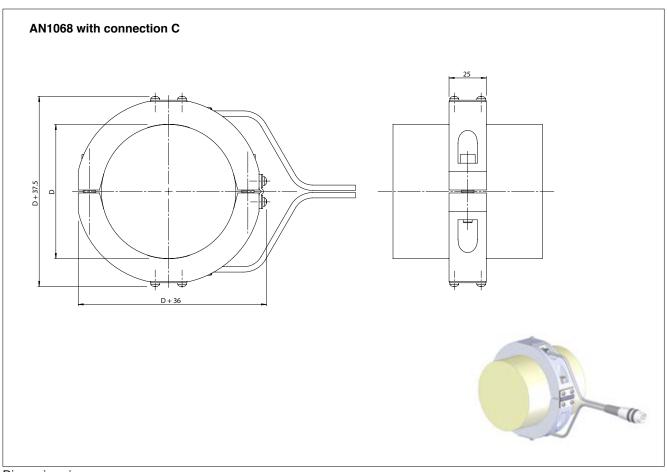
TECHNICAL DATA

Foil (GF = 2.0)		
350Ω		
±1000με		
± 0.2%		
$0.9 \pm 0.2\%$		
<±0.5% FS		
< ± 0.5% FS		
< ± 0.2% FS)		
<±0.1% FS		
350Ω		
5VDC (max 8VDC)		
< 15mA		
055°C		
055°C		
indefinite (offset occurs)		
IP66 (connection C) IP40 (connection D)		
aluminium		
Stainless steel		

DIMENSION



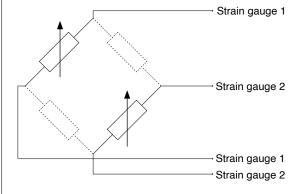
Dimensions in mm



Dimensions in mm

ELECTRICAL CONNECTIONS

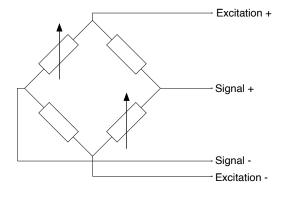
Version 2/4 bridge





Connector PIN	Function	
1	Strain gauge 1	
2	Strain gauge 1	
3	n.a.	
4	Strain gauge 2	
5	Strain gauge 2	
6	n.a.	

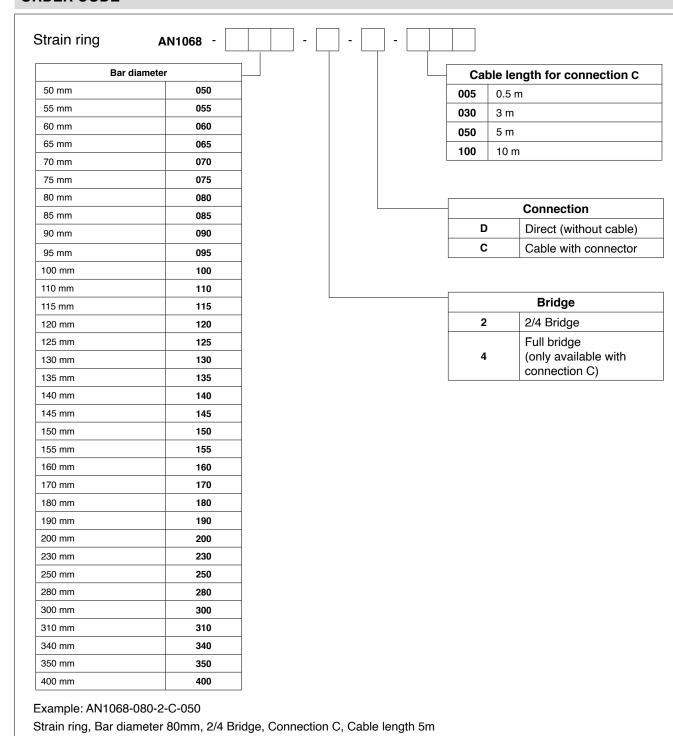
Version 4/4 bridge (only available with Option C, Cable and Connector)





Connector PIN	Function		
1	Excitation +		
2	Excitation +		
3	Excitation -		
4	Signal +		
5	Signal -		
6	Excitation -		

ORDER CODE



ACCESSORIES

Description		Order code	Code
Y - Cable with connection D	3 m	C - 678 - 030 - 680 - Y	F061939
	5 m	C - 678 - 050 - 680 - Y	F060629
	10 m	C - 678 - 100 - 680 - Y	F060630

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



JEFRAN

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