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5180 COMPRESSION WASHER LOAD CELL

Compression washer annular load cell specially designed for force measurement on bolts.

- Very low profile for high capacity load cell
- Stainless steel
- Protection IP 65
- Available in "Custom-made" design
- Very competitive prices

Model 5180

The SENSY's load cell 5180 is perfectly designed to the following applications :

- Bolts tightening measurement and monitoring
- Industrial force applications where space is limited

CAPACITIES :

5180 : (20) - (30) - 50 - (75) - 150 - 200 - 300 - 500 - 750 kN

TECHNICAL DATA		
Accuracy class		SL
Combined error	% F.S.	2 to 5 (*)
Creep error over 30 min.	% F.S.	< ± 0.2
Zero shift after loading	% F.S.	< ± 0,05
Reference temperature	°C	23
Nominal temperature range	°C	- 10...+ 45
Service temperature range	°C	- 30...+ 70
Storage temperature range	°C	- 50...+ 85
Temperature coefficient of the sensitivity	%/10°C	< ± 0.1
Temperature coefficient of zero signal	%F.S./10°C	< ± 0.1
Nominal sensitivity	mV/V	± 1
Zero balance	mV/V	± 0.02
Sensitivity tolerance (g=9,8107 m/s²)	%	< ± 0.5
Input / Output resistance	Ohm	350 ± 20
Insulation resistance (50V)	MOhm	> 5000
Nominal excitation voltage	V	5 to 10
Nominal excitation voltage	V	2...15
Safe load limit	% F.S.	150
Breaking load	% F.S.	> 300
Static lateral force limit	% F.S.	50
Permissible dynamic loading	% F.S.	70

F.S.: full scale Specifications subject to change without notice

(*) Depending on surface quality contact (good and uniform load distribution on the compression washer), otherwise in the worse case, might be of: > 10 %.

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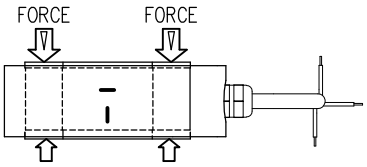
LOAD CELLS

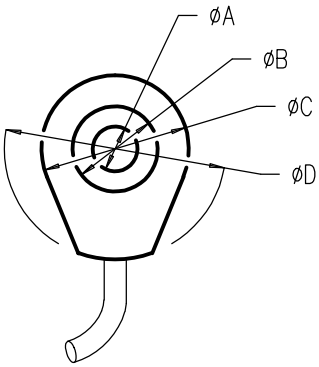
model 5180 Body in stainless steel & housing aluminium
model 5182 Body & housing in aluminium

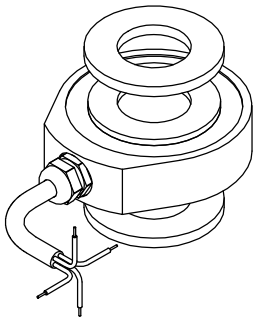
COMPRESSION WASHER

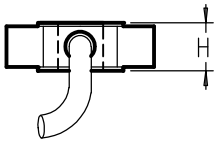
Range 20–750 kN (2–75 t.) IP65

Cable length : See table (CL)

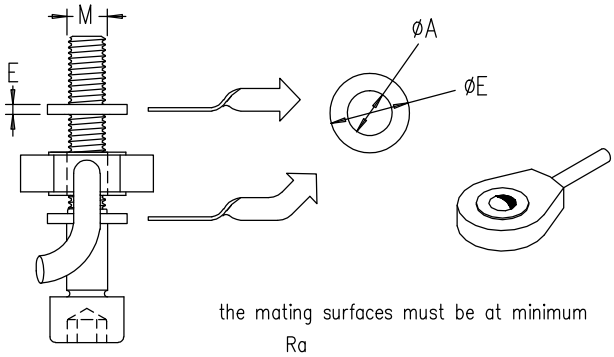


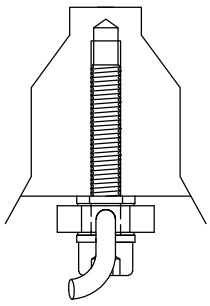






MODEL	CAPACITIES	M	øA $^{+0.1}_{+0}$	øB	øC	øD	øE	H	E	CL	Weight
5182	20 kN	6	6.1	17	34	40	12.7	11	3	2m	0.1 kg
	30 kN	8	8.1	19.5			19				
5180	50 kN	10	10.1				22				
	75 kN	12	12.1	24	38	47	25	12.5			
	150 kN	16	16.1	29	45	55	32	15	5	3m	0.12 kg
	200 kN	20	20.1	36	53	62	38	17			0.15 kg
	300 kN	24	24.1	44.9	63	70	48	19			0.25 kg
	500 kN	30	30.25	53	70	79	54	26	6		0.5 kg
	750 kN	36	36.5	76	99	99	74	35			1.3 kg





the mating surfaces must be at minimum

Ra 0.8 ▱ 0.02 // 0.05

Rev.4/1/2010