

5180

COMPRESSION WASHER LOAD CELL

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



Model 5180

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

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

AVAILABLE 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/s ²)	%	< ± 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 %

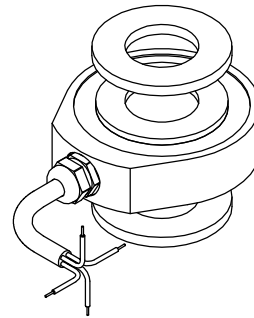
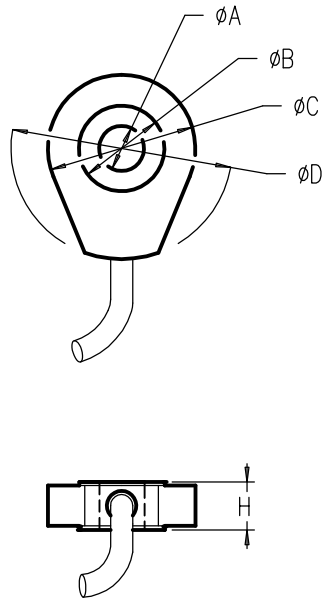
LOAD CELLS

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

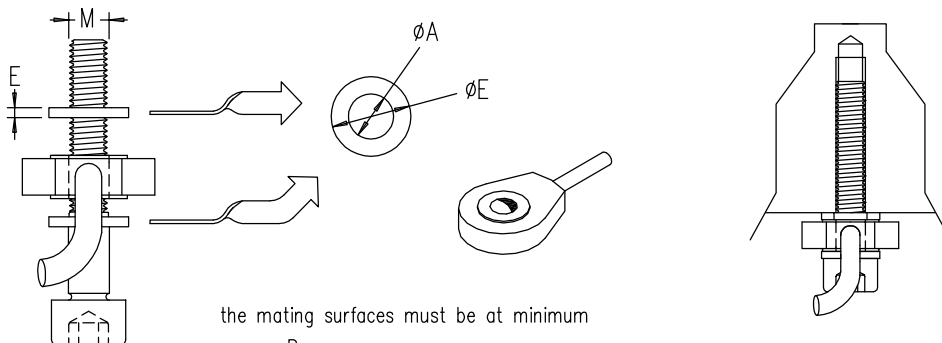
COMPRESSION WASHER

Range 20–750 kN (2–75 t.) IP65

Cable length :See table (CL)



MODEL	CAPACITIES	M	$\phi A_{+0.1}^{+0}$	ϕB	ϕC	ϕD	ϕE	H	E	CL
5182	20 kN	6	6.1	17	34	40	12.7	11	3	2m
	30 kN	8	8.1	19.5			19			
	50 kN	10	10.1	24			22			
5180	75 kN	12	12.1	24	38	47	25	12.5	5	3m
	150 kN	16	16.1	29	45	55	32	15		
	200 kN	20	20.1	36	53	62	38	17		
	300 kN	24	24.1	44.9	63	70	48	19	6	
	500 kN	30	30.25	53	70	79	54	26		
	750 kN	36	36.5	76	99	99	74	35		



the mating surfaces must be at minimum

R_a
0.8

$\sqrt{\text{0.02}}$ $\sqrt{\text{0.05}}$