

5900

TROUGH HOLE (ANNULAR) LOAD CELL

Annular force transducer specially designed for application requiring a centred hole.

- Sturdy design
- Material: Stainless steel
- Protection: IP 67
- Easy to install
- CE certified for hoisting applications
- Complete range of "CE" certified electronics, load limiters and displays available
- Whole range of mounting kits available
- Available options (non exhaustive list):
 - o ATEX Ex ia IIC T6 to T4 certified (hazardous area)
 - o Protection IP68
 - o High service temperature (180 °C)
 - o Amplified output signal (4..20 mA or 1..5 V)



Model 5900 - 30 kN

The SENSY's load cell 5900 is perfectly designed to the following applications :

- Load limitation on (overhead) cranes: replacement of spring washers
- Industrial weighing
- Industrial force measurement

CAPACITIES :

5900 : 3 - 5 - (7.5) - 10 - (15) - 20 - 30 - 50 - 75 - 100 - 150 - 200 kN

TECHNICAL DATA				
Accuracy class		SL 200 kN	0.5 ≤ 100 kN	0.25 ≤ 100 kN
Linearity error	% F.S.	< ± 0.5	< ± 0.5	< ± 0.25
Hysteresis error	% F.S.	< ± 0.5	< ± 0.25	< ± 0.25
Non - repeatability	% F.S.	< ± 0.25	< ± 0.2	< ± 0.1
Creep error over 30 min.	% F.S.	< ± 0.2	< ± 0,05	< ± 0.1
Zero shift after loading	% F.S.	< ± 0,05	23	< ± 0,025
Reference temperature	°C	23	- 10...+ 45	23
Nominal temperature range	°C	- 10...+ 45	- 30...+ 70	- 10...+ 45
Service temperature range	°C	- 30...+ 70	- 50...+ 85	- 30...+ 70
Storage temperature range	°C	- 50...+ 85	< ± 0.1	- 50...+ 85
Temperature coefficient of the sensitivity	%/10°C	< ± 0.1	< ± 0.1	< ± 0.05
Temperature coefficient of zero signal	% F.S./10°C	< ± 0.1	< ± 0.1	< ± 0.035
Nominal sensitivity	mV/V	1 ... 2	1 ... 1.5	1 ... 1.5
Zero balance	mV/V	± 0.02	± 0.02	± 0.02
Sensitivity tolerance (g=9,8107 m/s ²)	%	< ± 0.5	< ± 0.5	< ± 0.3
Input / Output resistance	Ohm	702 ± 5	400 ± 50	702 ± 5
Insulation resistance (50V)	MOhm	> 5000	> 5000	> 5000
Nominal excitation voltage	V	5 to 10	5 à 10	5 to 10
Nominal range of the excitation voltage	V	2...15	15	2...15
Safe load limit	% F.S.	150	120..200	150
Breaking load	% F.S.	300	150...300	300
Static lateral force limit	% F.S.	10	> 300...500	10
Permissible dynamic loading	% F.S.	50	> 300	50

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

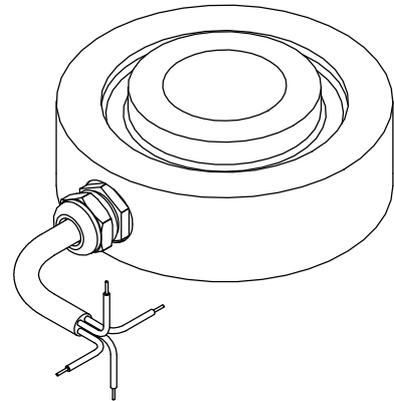
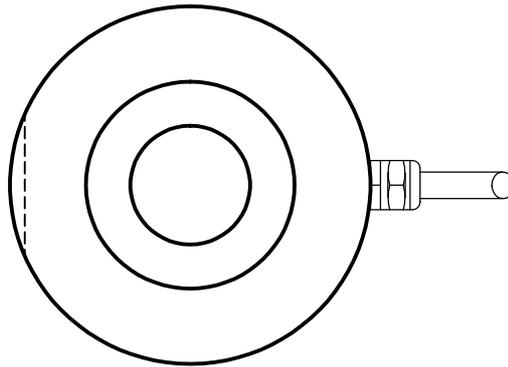
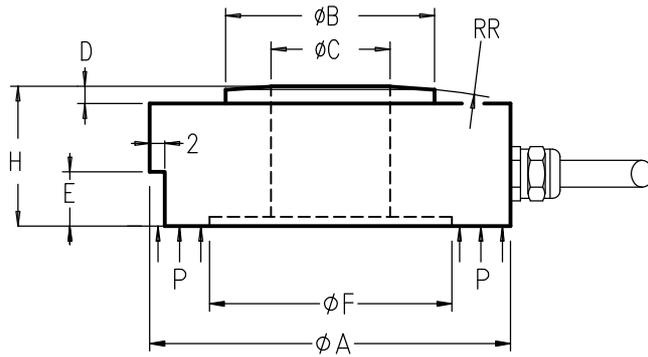
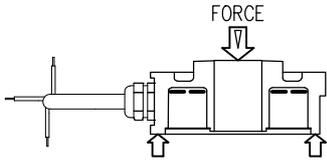
LOAD CELLS

model 5900 stainless steel

COMPRESSION ANNULAR (THRU HOLE)

Range 3 - (200) kN IP67
(0.3-15 (20)t)

Cable length : See table(CL)

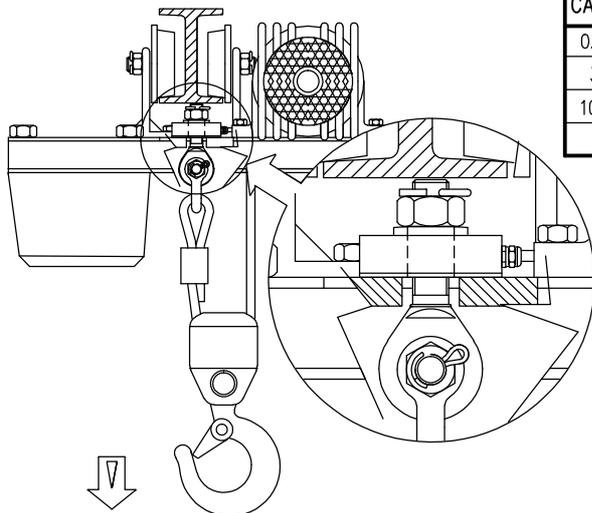


CAPACITIES	φA	φB	φC	D	E	φF	H	P (N/mm ²)	RR	Max Deflexion	CL	Weight
3 - 20 kN	59	30	16	4	3	49	25	4 - 24.5	300	0.05-0.15 mm	6m	0.5 kg
30 - 75 kN	79	50	30	5	4	70	31	30 - 74	500	0.20-0.35 mm	6m	1 kg
100 -150(200)kN	119	80	50	6	4.5	105	40	42 - 83	750	0.30-0.40 mm	6m	3.2 kg

STANDARD

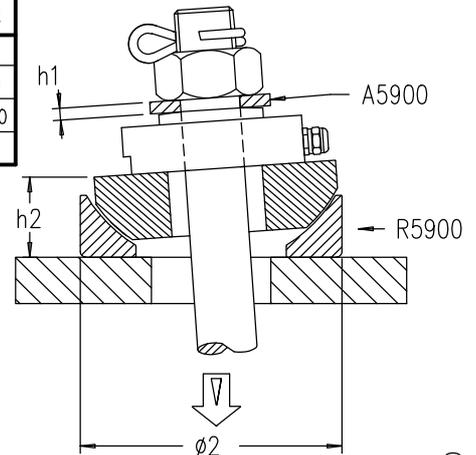
φC	φB	φA	H
↓ φX	φX+14	±φX+43	23...25
	φX+20	±φX+49	27...31
	φX+30	±φX+69	35...40

AVAILABLE



CAPACITIES	h1	h2	φ2
0.3 - 2 t	10	22.5	62
3 - 7.5t	15	28	90
10 -15(20)t	20	50	180

PROPOSED



* Optional