

# 5900

# TROUGH HOLE (ANNULAR) LOAD CELL

- Low profile for high capacity load cell
- Totally made of Stainless steel
- Protection IP 67
- Available in EEx ia IIC T4 / T6 certified version for use in hazardous area
- Available in high temperature execution
- Whole range of mounting kits available
- Available in IP 68 (hermetically sealed version)
- Easy to install



Model 5900 - 30 kN

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

- Industrial force applications where space is limited
- Weighing on cranes
- Force and stress measurement

### AVAILABLE CAPACITIES :

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

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

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

## LOAD CELLS

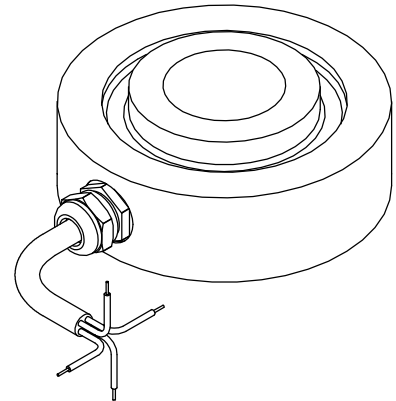
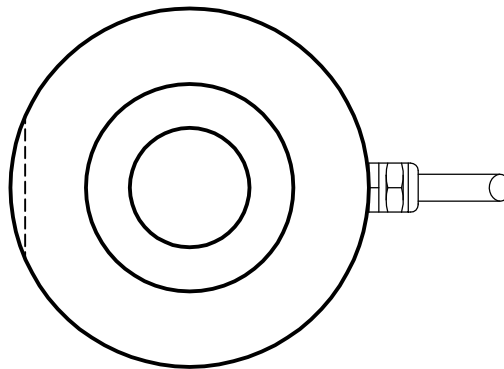
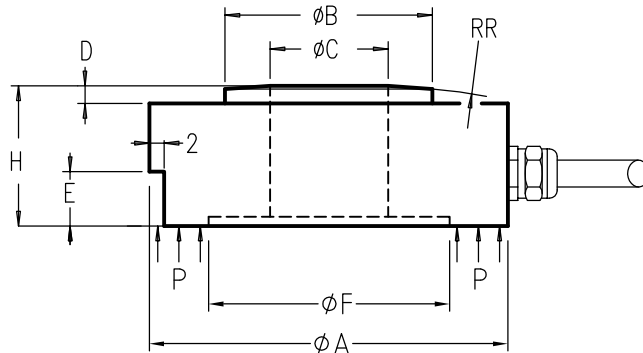
model 5900 stainless steel

### COMPRESSION ANNULAR (THRU HOLE)

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

Cable length : See table(CL)

CE  
(Hoisting \* )

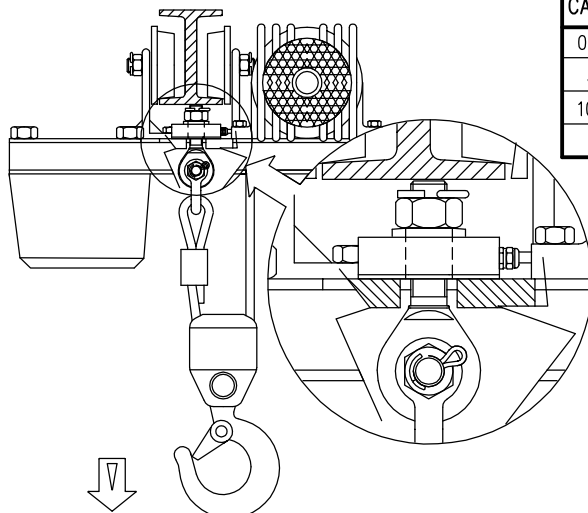


CAPACITIES	φA	φB	φC	D	E	φF	H	P (N/mm <sup>2</sup> )	RR	Max Deflexion	CL
3 - 20 kN	59	30	16	4	3	49	25	4 - 24.5	300	0.05-0.15 mm	3m
30 - 75 kN	79	50	30	5	4	70	31	30 - 74	500	0.20-0.35 mm	3m
100 -150(200)kN	119	80	50	6	4.5	105	40	42 - 83	750	0.30-0.40 mm	6m

STANDARD

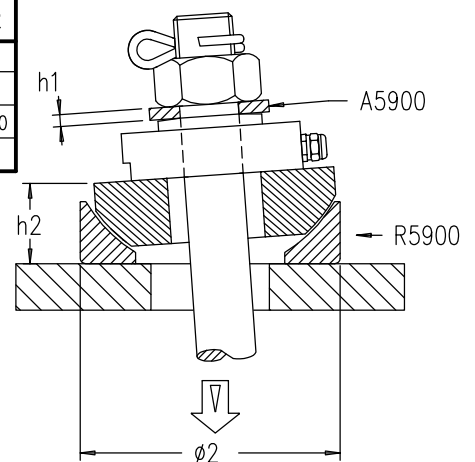
φC	φB	φA	H
φX	φX+14	±φX+43	23...25
	φX+20	±φX+49	27...31
	φX+30	±φX+69	35...40

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

Rev.1/4/2005