





3100P

PENDULAR COMPRESSION LOAD CELL

$\langle \epsilon_x \rangle$

Compression load cell.

- Canister, high capacity load cell (up to 500 tons)
- Totally made of stainless steel
- Protection IP 67
- Pendular technology Self restoring
- Available in C1,5 (1'500 d) OIML / R 60
- Matched impedance and sensitivity (for parallel connection)
- A whole range of mounting accessories is proposed
- Available options (non exhaustive list):
 - o ATEX Ex ia IIC T6 to T4 certified (hazardous area)
 - o High service temperature (180 °C)
 - o Protection IP68 (welded)



Model 3100P - 10 t

The SENSY's load cell 3100P is perfectly designed to the following application:

- Weighbridges
- Silos, tanks or hoppers weighing
- High capacity reactors
- Train scales etc...

CAPACITIES:

3100P: (3) - 5 - (7.5) - 10 - (15) - 20 - 30 - 50 - (75) - 100 - (150) - 200 - 300 - 500 t



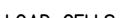
3100P + I3100P

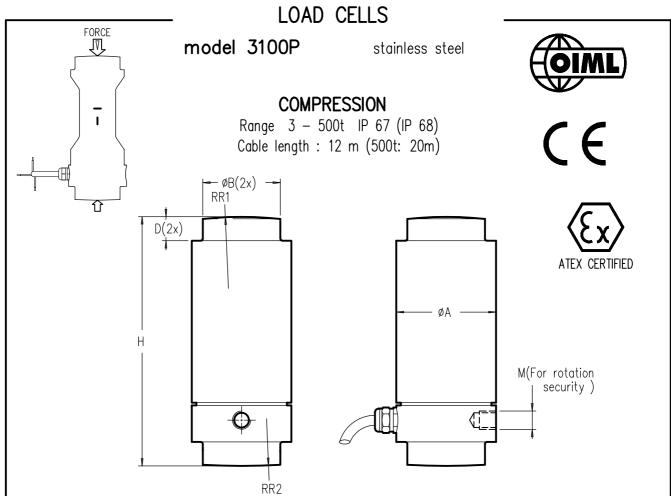
TECHNICAL DATA									
Accuracy class		0.25	0.1	C 1.5	0.03				
			1000 d	1500 d OIML	3000 d				
Linearity error	% F.S.	< ± 0.25	< ± 0.1	< ± 0.025	< ± 0.025				
Hysteresis error	% F.S.	< ± 0.25	< ± 0.1	< ± 0.025	< ± 0.025				
Non - repeatability	% F.S.	< ± 0.1	< ± 0.03	< ± 0.015	< ± 0.015				
Creep error over 30 min.	% F.S.	< ± 0.1	< ± 0.06	< ± 0.035	< ± 0.025				
Zero shift after loading	% F.S.	< ± 0,025	< ± 0.015	< ± 0.0075	< ± 0.0075				
Reference temperature	°C	23	23	23	23				
Nominal temperature range	°C	- 10+ 45	- 10+ 45	- 10+ 45	- 10+ 45				
Service temperature range	°C	- 30+ 70	- 30+ 70	- 30+ 70	- 30+ 70				
Storage temperature range	°C	- 50+ 85	- 50+ 85	- 50+ 85	- 50+ 85				
Temperature coefficient of the sensitivity	%/10°C	< ± 0.05	< ± 0.05	< ± 0.017	< ± 0.015				
Temperature coefficient of zero signal	%F.S./10°C	< ± 0.035	< ± 0.035	< ± 0.025	< ± 0.023				
Nominal sensitivity	mV/V	1,5	1,5	1.5 3	1,5				
Zero balance	mV/V	± 0.02	± 0.02	± 0.02	± 0.02				
Sensitivity tolerance (g=9,8107 m/s²)	%	< ± 0.3	< ± 0.3	< ± 0.1	< ± 0.1				
Input / Output resistance ≤ 20t	Ohm	351 ± 2	351 ± 2	351 ± 2	351 ± 2				
Input / Output resistance > 20t	Ohm	702 ± 2	702 ± 2	702 ± 2	702 ± 2				
Insulation resistance (50V)	MOhm	MOhm > 5000							
Nominal excitation voltage	V	5 to 10	5 to 10	5 to 10	5 to 10				
Nominal range of the excitation voltage	V	215	215	215	215				
Safe load limit	% F.S.	150	150	150	150				
Breaking load	% F.S.	300	> 300	> 300	> 300				
Static lateral force limit	% F.S.	15	15	15	15				
Permissible dynamic loading	% F.S.	50	50	50	50				

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

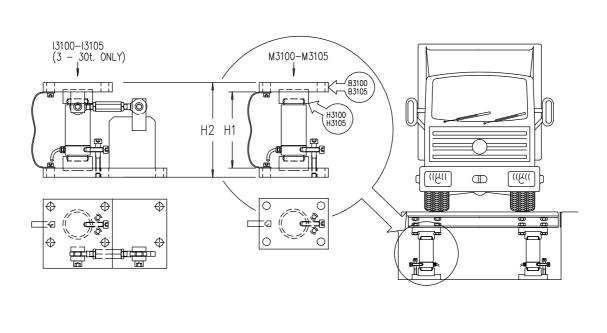
FP-3100P_EN.pdf 20/09/2011







CAPACITIES	ØΑ	ØB _{−0.1}	D	Н	М	RR1	RR2	H1	H2	Max.deflexion (mm)	R Input(ohms)	Weight (kg)
3 - 20 t	54	42	13	135	M10	200	250	165	205	0.03-0.1	±350	2.2 kg
30 t	34	42	13	133	WITU	200	230	103	203	0.03-0.1		2.2 kg
50 – 100t	±89	64	30	190	M12	300	300	234	294	0.26-0.34		5 kg
150 – 200t	115	90	20	210	M16	400	400	290	370	0.33	±700	15 kg
300t	121	110	20	240	M16	400	400	338	418	0.4		
500t (2mV/V)	180	130	25	350	M12	600	600	610	/	0.57		46 kg

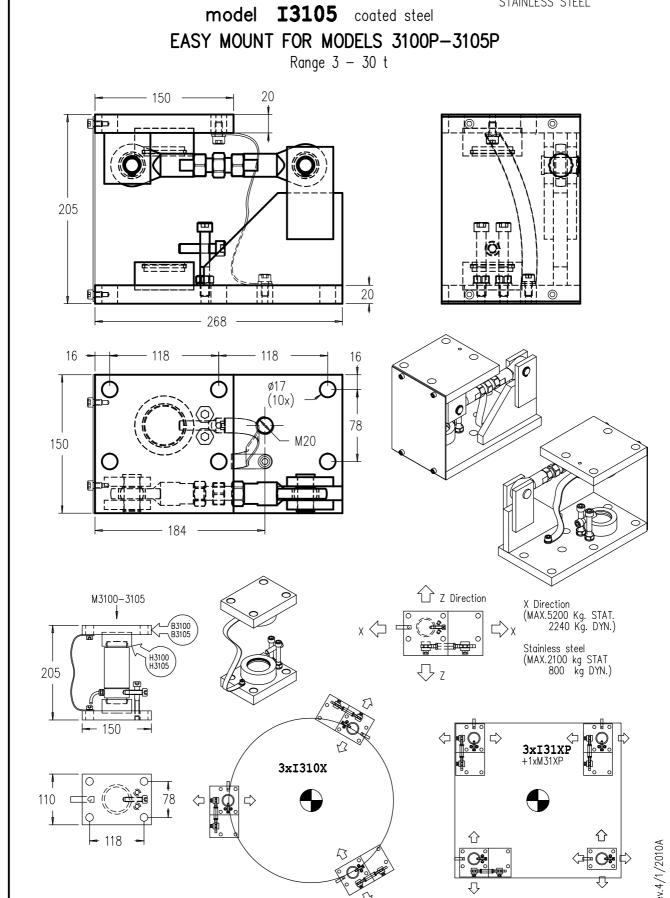




ACCESSORIES

model **I3100** stainless steel*

* ROD ENDS IN STAINLESS STEEL



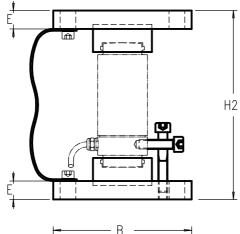


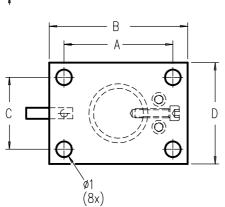
ACCESSORIES

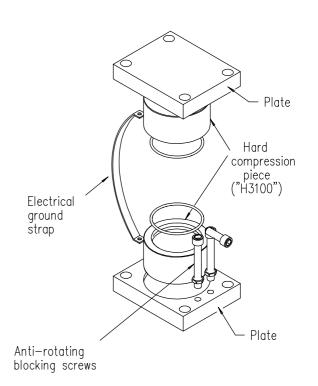
model M3100 stainless steel model M3105 coated steel

PENDULAR KIT UNIT FOR MODELS 3100P-3105P

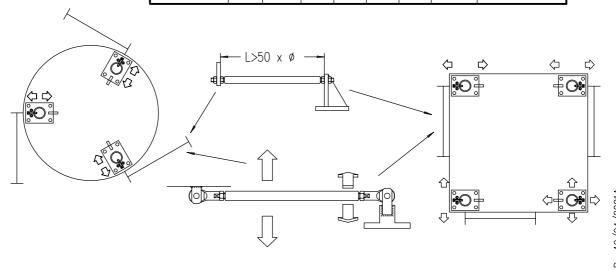
Range 3 - 300 t







CAPACITIES	Α	В	С	D	E	ø1	H2	Weight (kg)
3 – 30 t	118	150	78	110	20	17	205	±5.7
50 – 100t	130	170	90	130	30	21	294	±13
150 – 200t	185	235	135	185	40	25	370	±35.5
300t	100	233					418	±41



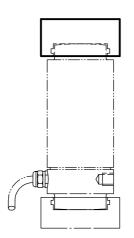


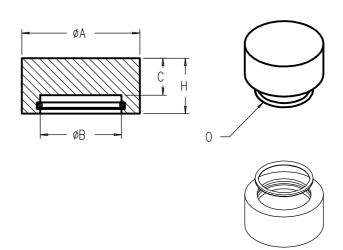
ACCESSORIES

model H3100 stainless steel coated steel

HARD COMPRESSION PIECES FOR 3100P

Range 3 - 300 t





CAPACITIES	ØΑ	ØΒ	E	Н	0 (0-Ring)	Weight (kg)
3 – 30 t	64	44	20	30	42 x 3	±0.65
50 – 100t	99	66	32	43	64 x 4	±2.3
150 – 200t	128	92	50	65	90 x 5	±6
300t	148	112	59	75	110 x 5	±9



