

Universal load cell combining accuracy, sturdiness and easiness to install.

- Wide range of capacities : 10 daN (10 kg) to 1000daN (1 t)
- Overload protection in tension and compression
(Not for 2712-500daN-0.02%, 2712-750daN and 2712-1000daN)
- Easy to install, compact design
- Protection IP 65 (Not for 2712-10daN)
- Material : Anodized aluminium alloy
- Available options (non exhaustive list):
 - o High service temperature (130 °C)
 - o ATEX Ex ia IIC T6 to T4 certified (hazardous area)
 - o Cable output by connector
- Also available as standard reference load cells following ISO 376 (see specific data sheet)



Model 2712 - 500 daN

The SENSY's load cell 2712 is perfectly designed to the following applications :

- Industrial force measurement
- Weighing of suspended reactors or hoppers
- Weighing of conveyor belts
- Hybrid weighbridges (mechanical conversion)

CAPACITIES :

2712 : 10 - (15) - 20 - (30) - 50 - (75) - 100 - (150) - 200 - (300) - 500 - (750) - 1000 daN

TECHNICAL DATA					
Accuracy class		0.1 1000 d	0.05 * 2000 d	0.03 * 3000 d	0.02 * 5000 d
Linearity error	% F.S.	< ± 0.1	< ± 0.05	< ± 0.025	< ± 0.015
Hysteresis error	% F.S.	< ± 0.1	< ± 0.05	< ± 0.025	< ± 0.015
Non - repeatability	% F.S.	< ± 0.03	< ± 0.02	< ± 0.015	< ± 0.01
Creep error over 30 min.	% F.S.	< ± 0.06	< ± 0.04	< ± 0.025	< ± 0.015
Zero shift after loading	% F.S.	< ± 0.015	< ± 0.01	< ± 0.0075	< ± 0.005
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	< ± 0.035	< ± 0.015	< ± 0.008
Temperature coefficient of zero signal	% F.S./10°C	< ± 0.035	< ± 0.03	< ± 0.023	< ± 0.013
Nominal sensitivity	mV/V	2	2	2	2
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	< ± 0.05
Input / Output resistance	Ohm	351 ± 2	351 ± 2	351 ± 2	351 ± 2
Insulation resistance (50V)	MOhm	> 5000	> 5000	> 5000	> 5000
Nominal excitation voltage	V	5 to 10	5 to 10	5 to 10	10
Nominal range of the excitation voltage	V	2...15	2...15	2...15	2...15
Safe load limit	% F.S.	150	150	150	150
Breaking load	% F.S.	> 300	> 300	> 300	> 300
Static lateral force limit	% F.S.	50	50	50	50
Permissible dynamic loading	% F.S.	50	50	50	50

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

* : Not for 2712-10daN

LOAD CELL

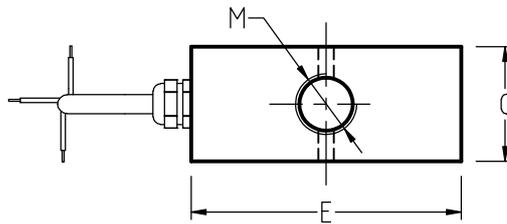
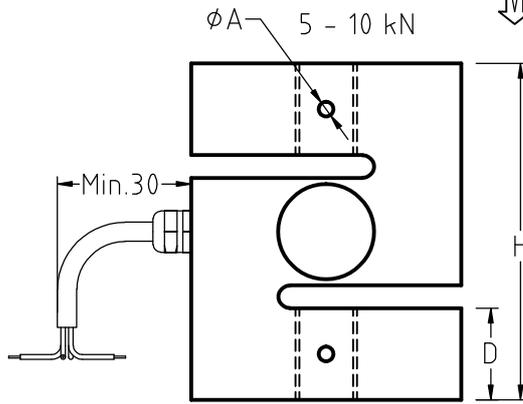
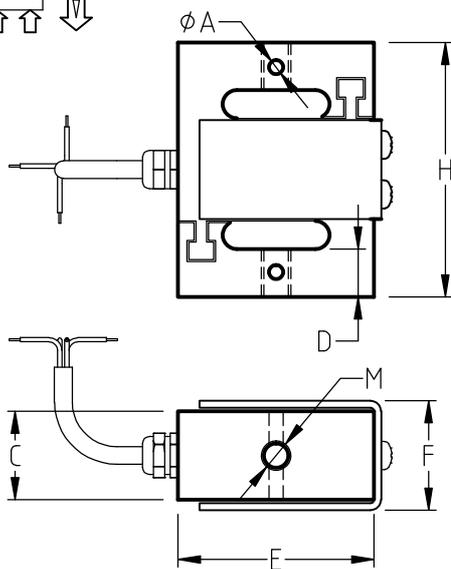
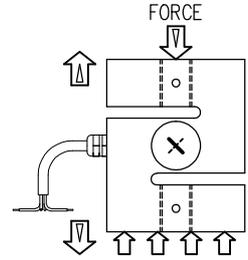
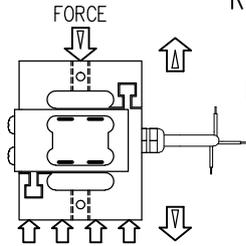
model 2712 aluminium

TENSION-COMPRESSION



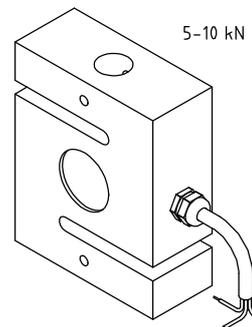
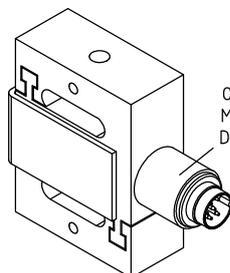
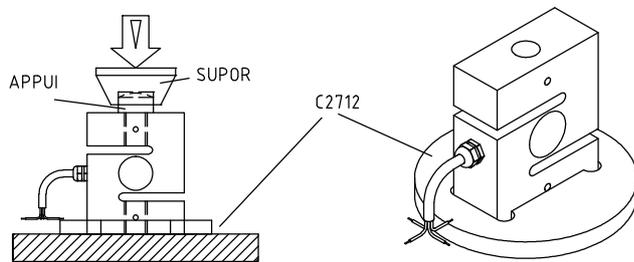
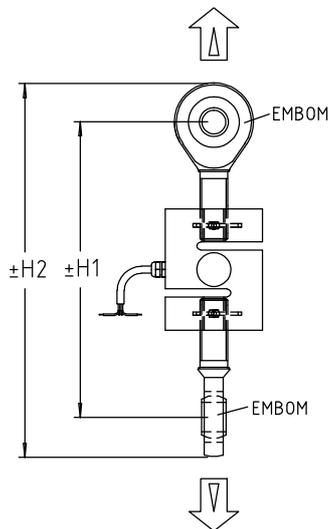
Range (10 daN – 10 kN) Protection see table (IP)
(10 – 1000 kg) Cable length : 3 m

Integrated overload protection 10–500 daN



CAPACITIES	φA	H	C	D	E	F	M	H1	H2	Breaking	Max.deflexion	IP	Weight
10 – 100 daN	4	72	25	13.5	55	±32	M8	132	167	1000 %	0.40 mm	IP 54	0.42 kg
150 – 500 daN (*1)		88	30	24	70	/	M12	188	233	600 % Max.20 kN	0.35 mm	IP 65	
5 – 10 kN		88	30	24	70	/	M16	188	233	-----	0.30 mm	IP 65	

(*1) : 500 daN 0.1% only



Note: Standard wiring for compression

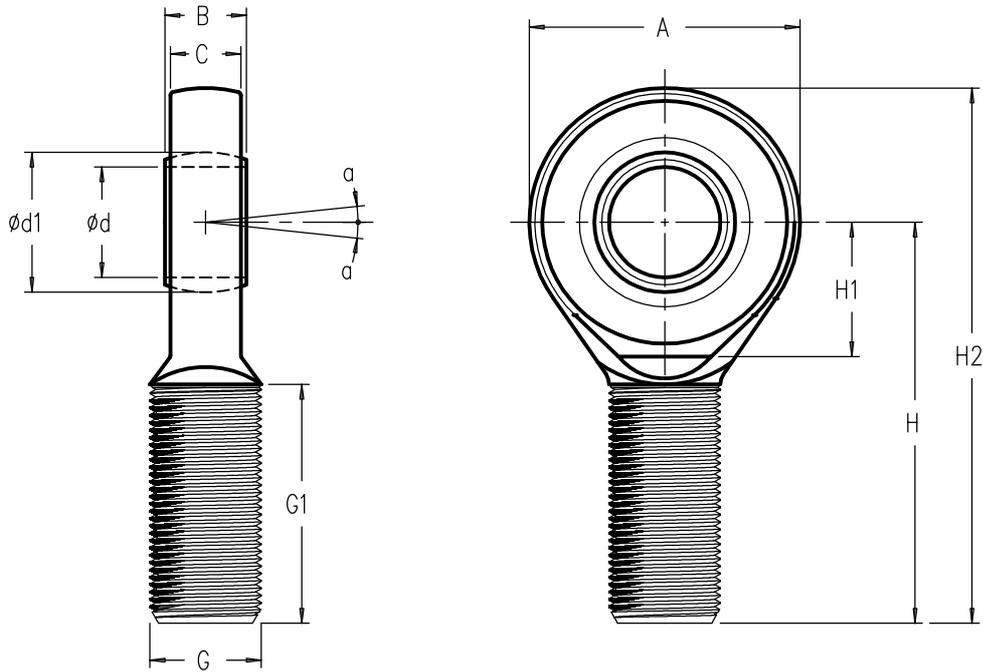
ACCESSORIES

model EMBOM coated steel

MAINTENANCE-FREE HEAVY-DUTY ROD ENDS WITH MALE THREAD

Friction stell/bronze autolubricated (M8 to M30x2)

stell/PTFE >M30x2



MODEL (DIMENSION G)	CAPACITIES (N)												Weight
	DYNAMIC C	STATIC Co	ϕd	A	B	C	H	a	d1	G1	H1	H2	
M6	3600	9000	6	21	6	4.3	36	13°	10	16	14	46.5	0.013
M8	5850	14600	8	24	8	6	42	15°	13	21	14	54	0.025
M10	8560	21600	10	29	9	7	48	12°	16	26	17	62.5	0.043
M12	11400	28500	12	34	10	8	54	10°	18	28	18	71	0.065
M16	22400	52000	17	46	14	11	69	10°	25	36	23	92	0.17
M24x2	51000	102000	25	64	20	17	94	7°	35.5	53	32	126	0.5
M30x2	65500	134000	30	73	22	19	110	6°	40.7	65	33	146.5	0.83
M36x3	112000	143000	35	82	25	21	140	6°	47	82	42	181	1.4
M45x3	220000	280000	50	112	35	30	185	6°	66	104	60	241	3.55
M56x4	440000	630000	70	160	49	42	235	6°	92	125	87	315	7.9
M60x4	345000	440000	60	135	44	38	225	6°	80	120	70	292.5	6.25
M64x4	570000	780000	80	180	55	47	270	6°	105	140	100	360	12

