

5000M

DYNAMOMETRIC SHACKLE

Load measuring shackle designed to measure a tension force.

- CE certified for hoisting applications
- Sturdy design
- Load-pin : stainless steel
- Protection IP 65
- Easy to install
- Complete range of "CE" certified electronics, load limiters and displays available
- Available options (non exhaustive list):
 - o ATEX Ex ia IIC T6 to T4 certified (hazardous area)
 - o Protection IP67 or IP67 marine
 - o Amplified output signal (4..20 mA or 1..5 V)



Model 5000M

The SENSY's load pin 5000M is perfectly designed to the following applications :

- Hoisting devices and crane's security in combination with a load limitation electronics
- Industrial weighing
- Force measuring test bench

CAPACITIES :

5000M : from 1 to 400 t
(Higher capacities on request)

TECHNICAL DATA		
Accuracy class		SL
Combined error	% F.S.	1
Non - repeatability	% F.S.	< ± 0.25
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 range of the excitation voltage	V	2...15
Safe load limit	% F.S.	200
Breaking load	% F.S.	> 200...500
Static lateral force limit	% F.S.	> 300
Permissible dynamic loading	% F.S.	70

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

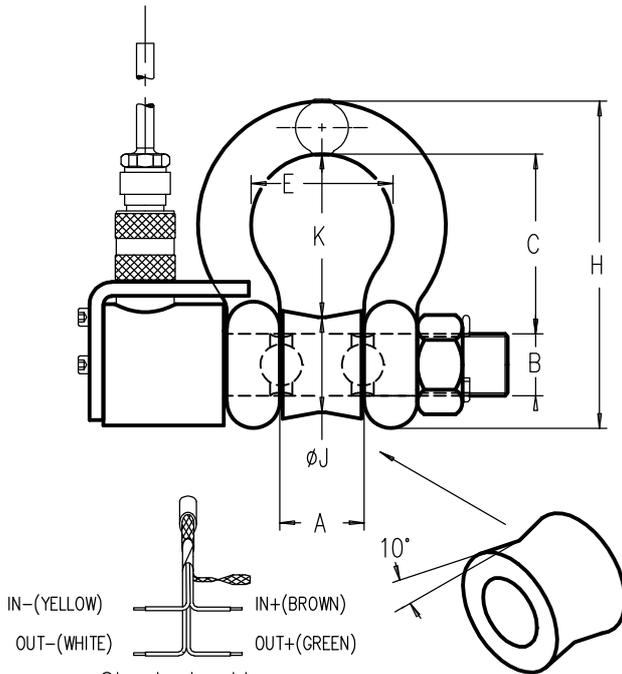
LOAD MEASURING SHAKLES

model 5000M

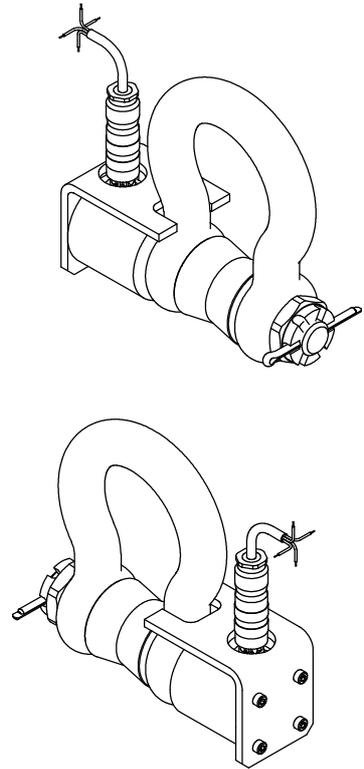
AXLE IN STAINLESS STEEL

Range 1 – 400t ±1mV/V IP65

Cable length : 6 m



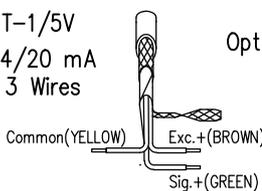
Standard cable
4x0.34 mm/2



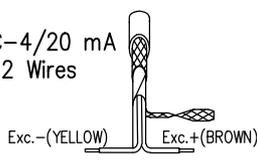
SIZE	CAPACITIES	A	B	C	D	E	F	H	φJ	K	TOLERANCES ±		Total Weight(kg)
											C & K	A	
3/4"	1 – 1.5t.	31	22	75	19	51	46	126	34	65	6.5	1.6	3
7/8"	2.5t.	36	25	84	22	58	53	148	35.5	79			3.5
1"	4 t.	43	28	95	25	68	60.5	167	37	90			4
1 1/8"	5 t.	46	32	108	28	74	68.5	190	40	104			5
1 3/8"	6.3 t.	57	38	133	35	92	85	233	50	127			8.5
1 1/2"	8 t.	60	42	146	38	99	92	254	54	140			12
1 3/4"	12 t.	73	50	178	45	127	106	313	65	171	6.5	3.5	19
2"	20 t.	83	57	197	50	138	122	348	72	189			28
2 1/2"	30 t.	105	70	264	65	180	145	453	90	250			52
3"	45 t.	127	80	330	75	190	165	546	105	319	6.5	6.5	96
3 1/2"	75 t.	140	95	380	90	230	203	626	117	365			150
4"	100 t.	140	108	368	104	254	229	653	130	357	/	/	207
4 7/8"	200 t.	200	140	540	130	305	308	921	165	527			340
5 5/16"	300 t.	200	150	600	140	305	335	1018	180	585			350
6 1/2"	400 t.	225	175	650	170	325	387	1137	200	630	/	/	585

Other capacities : On request

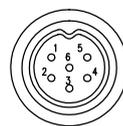
Option: T-1/5V
or J-4/20 mA
3 Wires



Option C-4/20 mA
2 Wires



FEMALE-MALE CONNECTOR DIN 45322



- CONTACT N°
- 1 Excitation - Yellow
 - 2 Output + Green
 - 3 Output - White
 - 4 Excitation + Brown
 - 5 Sense - Grey
 - 6 Sense + Pink
- Standard cable

Cable screen connected to transducer for option t,C,J

Cable screen not connected to transducer
Option f : Cable screen connected to transducer
(6 wires cable in option)