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5500 WIRE ROPE LOAD CELLS

Low cost load cells specially designed to measure the tension force on hoisting ropes.

HOISTING

Model 5500 - 2 t + accessories

Features

o CE certified for hoisting applications
o Easy installation directly and without dismantling on the hoisting rope
o Wide range of measured loads on cable (from 0.25 up to 24 t) and suitable cables (available diameters: from 6 up to 46 mm)
o Material: nickel-plated steel (also available in stainless steel)
o Protection class: IP65
o Sturdy design
o Reliable and economical solution
o Complete range of "CE" certified electronics and load limiters
o Cable length: see drawing table - CL (other lengths available on request)

Most popular options

Dual Wheatstone bridge | SIL / PL ready | Amplified output | Ex i | -50°C...+150°C

Applications

SENSY's load cells 5500 are perfectly designed for the following applications:

- Hoisting devices and crane security in combination with load limitation electronics (BRIDGE-BOY, CRANE-BOY, ...)
- Specially designed to equip existing cranes

Capacities

5500: 0.25 to 24 t on the wire rope

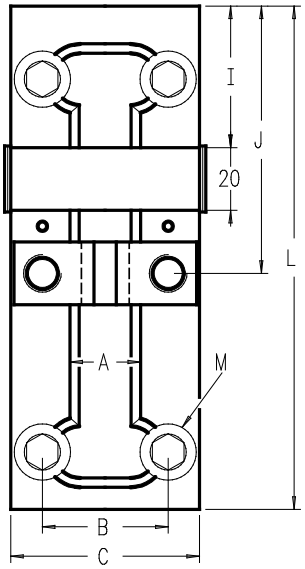
Specifications	2 - 5 %	
Reference temperature	23	°C
Compensated temperature range	-10...+45	°C
Service temperature range	-30...+70	°C
Storage temperature range	-50...+85	°C
Temperature coefficient of the sensitivity	<± 0.1	% F.S.*/10°C
Temperature coefficient of zero signal	<± 0.1	% F.S.*/10°C
Nominal sensitivity	± 1 **	mV/V
Input resistance	350 ± 2	Ohm
Output resistance	350 ± 2	Ohm
Insulation resistance (50 V)	> 5000	Megaohm
Reference excitation voltage	10	VDC
Permissible nominal range of excitation voltage	3...12	VDC
Safe load limit	200	% F.S.*
Breaking load	>300	% F.S.*
Permissible dynamic loading	70	% F.S.*

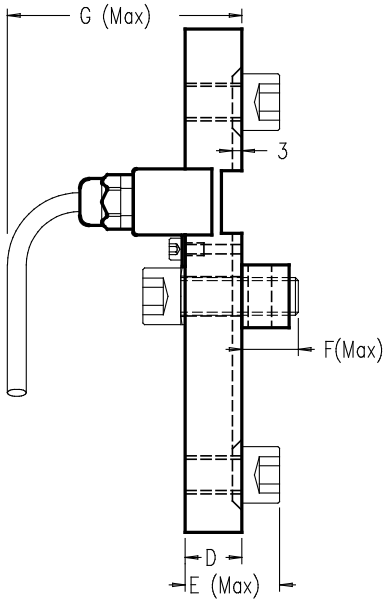
* F.S. : Full Scale.
** : can be different (according to the wire rope)
Combined error depends on rope material and on-site calibration
Specifications subject to change without notice

RoHS Compliant | sira | ISO 9001 certified

rev. : 24/08/2018

5500 > STANDARD DIMENSIONS





Ref. Item	Model		Cable Ø (mm)	Load t. (1) Min-Nominal-Max	±A	B	C	D	E	±F	G	I	J	L	M	Torque (Optimum) (N·m)	CL (m)	Weight (kg)
5500-A	(2) 1TTSA	1TTSI	6/9-10/15	0.25 - 0.8 - 1.2	20	40	60	18	30	31	100	45	85	160	M12	10	3	1.75
5500-A	1TSA	1TSI	6/9-10/15	0.4 - 1.1 - 1.5	20	40	60	18	30	31	100	45	85	160	M12	15	3	1.75
5500-B	1SA	1SI	6/9-10/15 16-22	0.75 - 2 - 2.8	20	40	60	18	30	31	100	45	85	160	M12	15	3	1.8
5500-B	1A	1I	6/9-10/15 16-22	1.6 - 3.5 - 5	20	40	60	18	30	31	100	45	85	160	M12	15	3	1.8
5500-C	2A	2I	14-28	2 - 5 - 7	20	50	75	18	30	40	100	45	85	160	M12	20	3	2.1
5500-D	3A	3I	26-36	5.5 - 10 - 16	25	68	100	25	41	55	115	55	95	200	M16	25	6	4.3
5500-E	4A	/	30-46	10 - 15 - 24	35	75	115	26	46	70	116	55	110	230	M20	50	6	5.7

Stainless steel

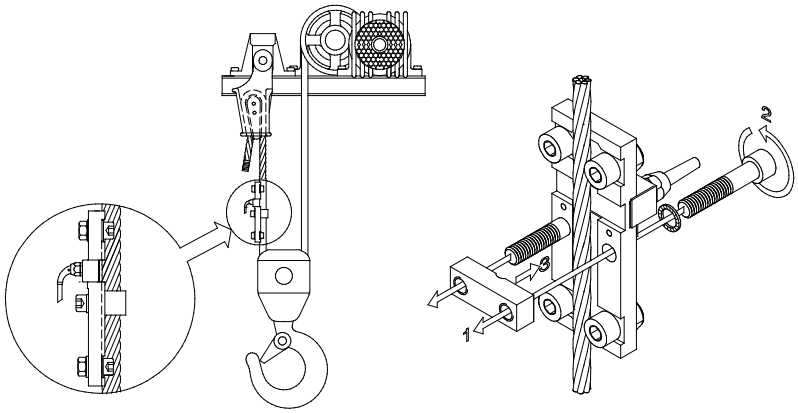
(3)

(1) Table detailing sensitivity and SENSY electronics limits for each cable diameter, available upon request
(2) Only in version 5500J 4-20 mA 3 wires

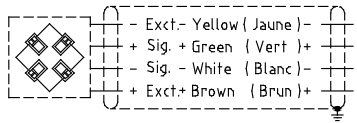
→ Other capacities and dimensions available on request

Dimensions in mm

Other views

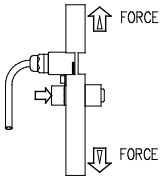


Wiring



Standard : Cable screen not connected to transducer
Faradisation non connectée au capteur

Load direction



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