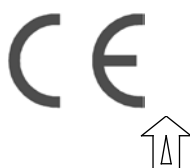
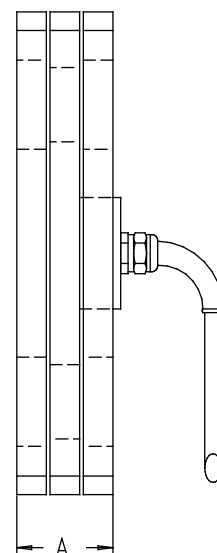
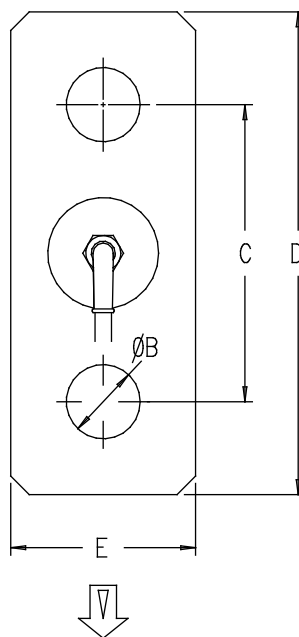


TENSION LOAD CELL FOR HOISTING

MODEL 5205L
(Old name : 520L)



CAPACITIES	A*	∅B*	C	D	E
750 kg	±13	11.5	65	94	40
1.5 t	±20	16.5	65	105	40
3 t	±25	19.5	90	135	50
5 t	±35	26	110	175	60
10 t	±47	36	185	275	80
15 t	±55	42	195	300	100



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APPENDIXES:

- Control + diagnostic data sheet
- Drawing

Rev.	Date	Reason
1	10/04/2018	Update of the DECLARATION OF C E CONFORMITY

1. OPERATING CONDITIONS OF MODEL 5205L

1.1. Mounting

1. The 5205L has to be used in the defined conditions of its technical data and following the described conditions.
2. The applied load has to be on the axle in accordance with the preferential direction of $\pm 3^\circ$ shown by the arrow.
3. The 5205L should only work in tension. It should not normally be subject to parasitic constraints such as: torsion, flexion, radial forces. It is therefore necessary to uncouple efforts by an appropriate mounting (ex: use of cables, eye hooks, shackles, chains).
4. The setting of the load cell can not be done using force or by giving violent knocks. Nevertheless, you can use a wooden mallet to ensure the adjustment.
5. Only the length of cable delivered with the load cell can be used; although this cable can be shortened. Otherwise, the sensitivity may be different. Please contact us. It is the mounter's job alone to connect the load cell to its electronic device according to the color codes defined on the form of the load cell and according to the specifications equivalent to the electronics used. The mounter will ensure the integrity of the cable after mounting on site. All damage to this cable or one of the conductors will necessitate its replacement by SENSY.
6. A written agreement from the manufacturer is necessary for particular conditions of use.

1.2. Use

1. This 5205L load cell is designed to take an occasional static overload, up to 2 x the Nominal Load (case of the test load of a travelling crane) without getting damaged. In no case, can a superior overload (static or dynamic) be accepted.
2. The handled load has to be free and adapted to the nominal load of the system :
 - no anchorage to the ground or to a support;
 - no collision with another load or structure;
 - no jamming;
 - no shock produced by another load falling on the handled load.
3. The load cell should not undergo shocks linked to the conditions of use: case of a balancing swingle-tree crashing against the chassis of the winch in the swing of the pulley block.

1.3. Periodic inspections

1. Check output for zero load (Annually)
 - max. allowed: ± 0.15 mV/V for models 5205L
 - ± 6 mA for models 5205L-C, 5205L-J
 - ± 0.8 V for models 5205L-t
2. Make sure that the load cell has not been knocked (markings) or chemically attacked (some corrosive greases). If point 1 is not accounted for, just take preventive measures. (Annually)
3. In case of doubt, answer the diagnostic questionnaire provided with the individual form of the load cell, join and consult the constructor.
4. Check the integrity of the cable.
5. After any serious functioning incident, repeat operations 1 to 3.

1.4. Calibration

If it's not possible to hoist the nominal load for calibration, hoist at least 50% of the nominal load.

1.5. Use features

Type	Resistive	option C 4-20 mA 2 wires	option J 4-20 mA 3 wires	option t 1-5 V	
Compensated temperature range	from -10° to $+45^{\circ}$ C				
Operating temperature range	from -30° to $+80^{\circ}$ C				
Storage temperature range	from -50° to $+85^{\circ}$ C				
Power supply (VDC)	5 - 12	15 - 28 not regulated	10 - 30 not regulated	10 - 30 not regulated	
Bridge impedance (Ω)	350 \pm 30	(5000)	(350)	(350)	
Load impedance (Ω)	NA	0.1 - 1k	0.1...0.3k	> 10k	
Nominal signal range	Min.	0-0.5 mV/V	9 mA	4 - 9 mA	1-5 V
	Max.	0-1.7 mV/V	22 mA	4 - 22 mA	0.2 - 5.6 V
Electrical saturation	> 2 mV/V	> 24 mA	> 24 mA	> 5.6 V	
Normal drift (zero) %/°C	<0.01	<0.03	<0.03	<0.03	
Normal drift (span) %/°C	<0.01	<0.025	<0.025	<0.02	

1.6. Guarantee

The constructor's guarantee applies provided that the mounting recommendations and general use principles exposed above are respected.

For all particular utilization not described in these documents, the preliminary written agreement from SENSY s.a. is mandatory to preserve the conformity.

2. DECLARATION OF CE CONFORMITY

SAFETY COMPONENTS PUT ON THE MARKET SEPARATELY

We certify that the above mentioned material has been manufactured and tested according to our quality standard specifications and all the applicable rules according to CE directives :

- European Directive 2011/65/EU related to the restriction of the use of certain hazardous substances in the electrical and electronic equipment (RoHS)**
- Safety / low voltage European Directive 2014/35/EU**
- European Directive 2014/30/EU related to "Electromagnetic compatibility"**
- European Directive 2006/42/EC "Machinery Directive" related to safety components**
- Directive européenne 2014/53/UE relative à l'équipement radio**

CONCERNED ITEMS

- Models 5205L (resistive load cells)
Electronics associated: MARK"1" or BRIDGE-BOY
- Models 5205L-C, 5205L-J (amplifier 4 – 20 mA integrated)
Electronics associated: CRANE-BOYP – DISP-BOYP – MARK E.

These load cells have been designed for hoisting devices and may be used with other electronic load limiters. In this case, to be in accordance with the CE requirements the customer has to verify the right compatibility between the electronic (in accordance with referred directives in industrial environment) and SENSY load cells. Load cells for hoisting have been proof-loaded at twice the nominal capacity in our factory (200 % nominal capacity) as mentioned in their dimensional control certificate. This information is written on the individual control certificates.

REGULATIONS

- ISO 13849-1 Pl « c »**
- Rule FEM 9761**
- NBN 52-010 / 52-011**
- EN61326 (2006)**

Date : April 10th 2018

JM GILLET
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