

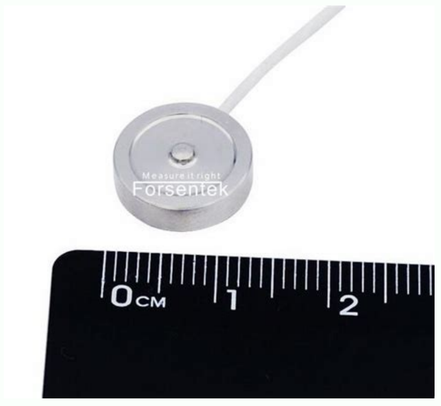
Open

Load cell datasheet 50kg









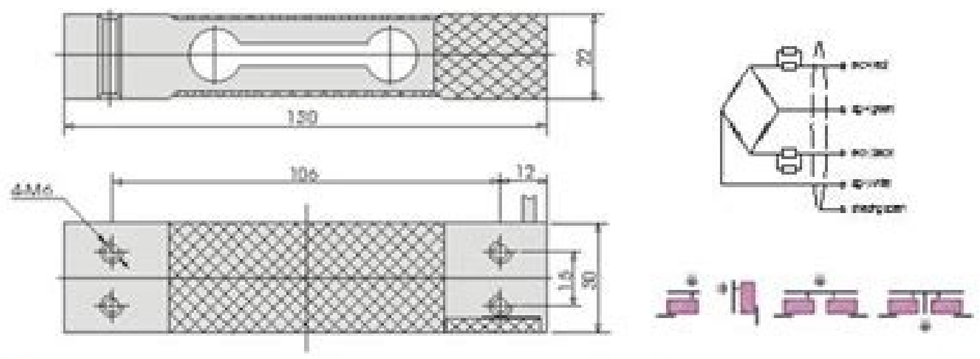
TAL201 PARALLEL BEAM LOAD CELL



Features:
- Capacity : 3-120kg
- Material: aluminum-alloy
- Type: Parallel beam type
- Defend grade: IP65
- Recommended platform size:250x350mm
- Application: electronic price computing scale, electronic counting scale, electronic balance and other electronic weighing devices

WWW.HTC-SENSOR.COM

Electrical connection and Dimensions:(dimension unit: mm)



Specifications:		
capacity	kg	3,5,10,15,20,30,40,50,100,120
safe overload	%FS	150
ultimate overload	%FS	300
rated output	mV/V	2.0 ± 0.2
excitation voltage	Vdc	9~ 12
combined error	%FS	± 0.03
zero unbalance	%FS	± 2.0
non-linearity	%FS	± 0.02
hysteresis	%FS	± 0.02
repeatability	%FS	± 0.01
creep	%FS/30min	± 0.02
input resistance	Ω	405 ± 10
output resistance	Ω	350 ± 3
insulation resistance	MΩ	≥ 5000 @ 50 Vdc
operating temperature range	℃	-20 ~ +60
compensated temperature range	℃	-10 ~ +40
temperature coefficient of SPAN	%FS/10℃	± 0.02
temperature coefficient of ZERO	%FS/10℃	± 0.03
Electrical connection	cable	4 core shielded PVC cable, Ø4.5 × 450 mm

※Ordering code: model-capacity- rated output-accuracy-defend grade- the length of cable

50kg load cell datasheet.

Follow the directions in the terminal window. Connect the external wires (black and white) of the load cell to the E-outputs and + of the HX711 module. Connect the opposite sides of the external wires (black and white) of the two load cells. If you leave it during the night, you can see that the value has changed considerably (also Â ± 1 kg). If you combine four cells to a single scale, you can measure up to 4 x 50 = 200 kg / 440 pounds. For example, if I leave the scale, you quickly return to about 50 g. Here is an example of an iPhone 5 (113g) on my homemade staircase: it takes some time for the level of setting at zero after having a heavier weight on it. Features: Maximum range: 50kg List of packages: 1 x Mobile charge-50 kg Documents: Technical sheet Content table: You can buy relatively economical load cells from China. And + and it is the power wires for the cells. Switching invert only the calibration parameter in the software. It should also be about 1k Ohm 2. Upload the sample code to your Arduino. The polarity does not matter. Dissemination: Keep in mind that some of the links in this post are affiliate links and if you cross them to make a purchase I will gather a commission. So it takes some additional time to return to zero again. Both should be about 2k ohms. Keep in mind that I connect these companies and their products due to their quality and not because of the commission I receive from your purchases. If you want to use the interrupts to update the data on the scale, you need to connect the DT output to an ARDUINO enabled interrupt pin. Connect the DT and the SCK of the HX711 module to any of the I Digital Arduino pins. You can do it with a simple multimeter. It is not necessary to know which thread is for positive or negative tension. I have red and black: the important part¨ identify the medium wire. It should be about 1k ohm. Open the calibration example that Ã came with the Library. It has two parts. This load sensor, sometimes called an extender, Ã¨ the same as found in digital bathroom scales. The reading of the balance varies approximately more¹ or less than ten grams while the balance stays still. The load cell is compressed between the outer shell and ring spacer: The load cell mounted on a wooden board: The four load cell circuits mounted under a wooden board: 1. A black-and-white pair goes to E+ and other black-and-white pair to E-. Form a ring by connecting the outer wires of the same color (black and white) as the four load cells. This sensor can measure up to about 110 pounds. Then the other ends resistance to black and white wires. HX711 also works with 3.3V. But it tends to slide slowly over time. It should work without any modification if you have connected DT output module HX711 to Arduino pin 4 and SCK to Arduino pin 5. So if you have any other microcontrollers that work at 3.3V, then you can use 3.3V instead of 5V. C:\Users\\Documents\Arduino\libraries /Users//Documents/Arduino/libraries 2. Your decision, whether or not you decide to buy something, depends entirely on you. 3. Then it begins to issue the present value of the weight on the balance. For One/Nano, these are Pins 2 and 3. I found this from Thingiverse that worked perfectly for me: 2624188 Here's what the printed photo frame looks like. 6. A+ and A- are the measurement inputs from cells. In my case, the resistance between the white and black wires Ã¨ of 2k, and between white and red or black and red Ã¨ of 1k. Download the library Â"HX711_ADCÂ": Click on the green button Â"Clone or downloadÂ" and then Â"Download ZIP.Â" Extract the downloaded ZIP file and move it to the folder Â"librerieÂ" Arduino. Connect the center cable (red) of a E+ and E- outputs of the HX711 module. The easiest way¹ to yB .seriw der owt eht neewteb ecnatsiser eht erusaem nehT .2 .eludom 117XH eht fo tupni -A eht ot srotsiser k1 owt tcennoC .eludom 117XH eht fo stupni -A dna +A eht ot sllec daol eht fo)der(seriw elddim eht tcennoC .3 noitarbilaC>-CDA_117XH>-selpmaxE>-eliF :unem eht morf neht dna EDI oniudrA nepO .eulav detar mumixam eht morf %50.0Â±Ã si ,ceps eht ot gnidrocca ,ycaruccA .sllec eht rof seriw rewop eht era -E dna +E .sllec eht morf stupni tnemerusaem eht era -A dna +A .eludom 117XH eht fo tupni +A eht ot llec daol eht fo)der(elbac elddim eht tcennoC .sllec daol eht egamad yltnenamrep nac timil mumixam eht revo gnioG .3 .mrof oediv ni ediug pets-yb-pets A .erauqs retuo na dna erauqs renni na sah ti taht ees nac uoy ,llec daol eht ta kool uoy fI .sriap seriw kcab-etihw eht fo stniop noitcennoc owt eht neewteb ecnatsiser eht gnirusaem yb gniriw ruoy etadilaV .seriw eht yfirev dluohs uoy ,eludom reifilpma 117XH eht ot sllec daol eht gnitcennoc erofeB .sbl 011 / gk 05 rof detar si llec hcaE .seriw retuo eht dna eriw elddim eht neewteb ecnatsiser eht elbuod si seriw retuo eht neewteb eulav ecnatsiser ehT .stnemerusaem mret trohs ni ti htiw ecneirepxe ym sehctam ssel-ro-erom sihT g52Â±Ã >- gk520.0 = 5000.0 x gk05 .)llec rep sbl 561 / gk 57(%051 fo daolrevo etamitlu eht dna)llec rep sbl 031 / gk 06(daolrevo %021 eldnah ylefas nac yehT .tnatropmi ton si ytiralop eht ,seriw rewop eht htiw ekiL .tiucric llec elgnis a dna ,tiucric llec-owt ,tiucric llec-ruof :smargaid noitcennoc eerht lla revo og lliw I ereH .2 .3 .rotinoM laireS oniudrA eht nepO .)seriw der(slanogaid htob fo ecnatsiser eht gnirusaem yb gniriw eht etadilaV .yrarbil "CDA_117XH" eht fo selpmaxe eht rof snip tluafed eht era esoht ecnis ,5 dna 4 snip desu I ,citamehcs eht nI .seetnaraug on era ereht tub ,I sa noitarugifnoc emas eht evah ylekil tsom uoy neht ,seriw kcalb dna ,der ,etihw evah osla uoy fI .emarf gnitnuom a tnirp D3 ot ti draob nedoow a ot meht .1 .1 :tinu elacs elgnis a smrof taht pool a ot sllec ruof tcennoc nac uoY .draob nedoow a ot llec daol elacs moorhtab eht tnuom ot woh fo noitanalpxe deliated a si oediv sihT .nip V5 oniudrA eht ot CCV dna DNG oniudrA eht ot eludom 117XH eht fo DNG eht tcennoC .meti taht fo thgiew eht retne neht dna sllec daol eht otno ssam nwonk a tup ot uoy sksa tI .llec daol eht fo mir retuo eht dna draob eht neewteb recaps a dda ot evah uoy snaem sihT .tinu eht fo tser eht ot evitaler xelf ot trap renni eht swolla taht yaw a ni draob ruoy ot ti hcatta tsum uoY .eludom 117XH eht fo stupni -A dna +A eht ot lanogaid rehto eht tcennoC .eludom 117XH eht fo tuptuo -E dna +E ot sriap eriw retuo eht tcennoC .meht fo tuo gnimoc seriw eerht eb dluohs erehT .elacs ruoy setarbilac ssecorp sihT .emas eht eb tsum sllec daol eht lla tuB .+A ot srotsiser eht dna -A ot elbac der eht tcennoc llew sa yam uoY .4 .1 :tinu elacs elgnis a smrof ot edis-yb-edis sllec owt tcennoc nac uoY .1 :llec daol elgnis a esu nac uoy ,srotsiser owt

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