

DESIGNSHEET

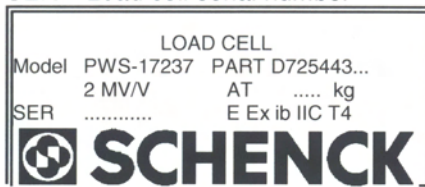
WEIGH FEEDER DESIGN SHEET										12/10/2010
CUSTOMER: Stock Equipment					SERIAL #: 146510-02A-DMO					
PO#: A10262					ORDER#: 146510					
END USER: CLEARFUELS TECHNOLOGY INC					DWG#:					
MATERIAL: wood chips and plant stalks					Material Size: 3		INCLINATION		0 degrees	
DENSITY min:		8.0 pcf		RATE		6000 lbs/hr;		2722 kg/hr		
max:		20.0 pcf				3.00 STPH		2.72 MTPH		
INFEED WIDTH :					22.00 in					
MATERIAL DEPTH:					7.43 in		18.9 cm			
BELT SPEED:					0.1836 ft/s		0.05597 m/s			
BELT CIRCUIT:					128.73 sec					
BELT LOAD:					9.08 lb/ft		13.51 kg/m			
WEIGH LENGTH:					20.00 in		0.51 m			
LIVE LOAD:					15.13 lb		6.86 kg			
DEAD LOAD:					41.00 lb		18.60 kg			
TOTAL LOAD:					56.13 lb		25.47 kg			
LOADCELL SIZE: 2x					66.15 lb		2x 30		kg	
LOADCELL RATED OUTPUT:					2 mV/V					
LIVE LOAD SIGNAL:					2.71 mV		(BASED ON 10 V Excitation)			
PULSES PER FOOT:					9258.16 pulses/ft		218834 pulses/rev		60 teeth	
CALLIBRATION WEIGHT (each) :					8 lb		x 2 Sets			
CORRESPONDING LOAD:					105.77		% OF LIVE LOAD			
BELT LENGTH:					283.64 in		7.20 m		23.64 ft	
BELT WIDTH:					36 in					
FLANGE:					0 in					
MOTOR SPEED:					1700 rpm					
MOTOR SPECIFICATIONS:					0.5 AC					
GEAR REDUCER RATIO:					520.00		to 1			
GEAR REDUCER MODEL:					SK Non-Std CPE \$\$					
ADDITIONAL INFORMATION										
PULLEY CENTERS:					122.00 in					
Created by: J. Goehl										
Revision: 0										

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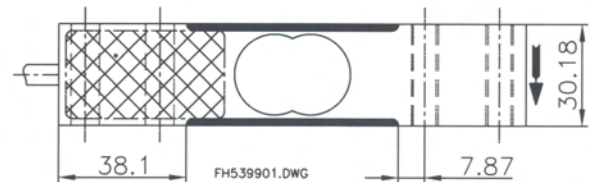
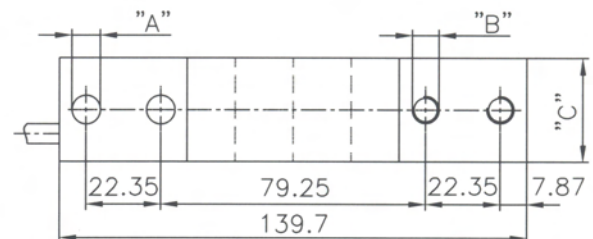
SINGLE-POINT LOAD CELL, PWS TYPE

Type label, sticker

SER = Load cell serial number



Dimensions



AT =	Part =	"A"	"B"	"C"	Torque	Full range of travel
Rated load	Stock No.:	[mm]				
* 10 kg	D725443.01	8.5	M8	23.8	32 Nm	0.3mm
* 30 kg	D725443.02	8.5	M8	30.73	32 Nm	0.35 mm
* 60 kg	D725443.03	8.5	M8	30.73	32 Nm	0.35 mm
* 100 kg	D725443.04	8.5	M8	30.73	32 Nm	0.45 mm
* 150 kg	D725443.05	8.5	M8	30.73	39 Nm	0.45 mm
300 kg	D725443.06	8.5	M8	30.73	39 Nm	0.5 mm
# 500 kg	3360.119	10.4	M10	36.5	79 Nm	0.5 mm
# 700 kg	3360.120	10.4	M10	36.5	79 Nm	0.5 mm

* Legal-for-trade variant (C3) available upon request Arrow-head on front side = Measuring force direction

Nominal sensitivity	2 ± 0.002	mV/V	
Combined error	0.03	%	(*)
Compensated temp. range	-10 to 40	°C	
Sensitivity temperature coefficient	0.045	%/10K	
Zero signal temperature Coefficient	0.045	%/10K	
Creep over 20 min.	0.03	%	(*)
Zero signal tolerance	≤2.0	%	(*)
Variability, VDE 2637	0.01	%	(*)
Service temperature range	-30 to 70	°C	
Storage temperature range	-50 to +85	°C	
Max. excitation voltage	15	V	
Input resistance	min. 350	Ω	
Output resistance	350±3	Ω	
Isolation resistance	5000	MΩ	
Limit load rel. to rated load	150	%	
Breaking load / rated load	300	%	
Corner load error at 50% rated load	0.05	%/100mm	
#Corner load error at 50% rated load	0.5	%/100mm	

Electrical Cable:	6 Conductor + Shield, 5m long
Cable Color Code:	
Input Voltage --	Green
Input Voltage +	Black
Measuring signal --	White
Measuring signal +	Red
Sensor conductor --	Orange
Sensor conductor +	Blue
Shield	Yellow
	Conductor, isolated over its entire length

Information concerning certified applications:

- Max. number of increments $n \leq 3000$

- Min. utilization $Ba_{\min} = 42\%$ (with 3000d)

- Min. load cell increment value $V_{\min} \quad V_{\min L / C} = \frac{E_{\max}}{7143} \quad (E_{\max} = \text{peak load})$

Example: PWS 100kg

Min. admissible increment value $V_{\min L / C} = \frac{100\text{kg}}{7143} = 14 \text{ g (theroet. magnitude)}$

i.e., the weighing electronics increment value is the next possible increment = 20g.