Model 91002

Tedea-Huntleigh

VPG force sensors

Celtron • Revere • Sensortronics • Tedea-Huntleigh

Crane Scale Load Cell

FEATURES

- Capacity: 1.5 t to 30 t
- Alloy steel construction
- Integrated overload protection for both tension and compression loading
- Direct mounting of weight indicator
- IP67 protection



APPLICATIONS

- Crane scales
- Hanging scales

DESCRIPTION

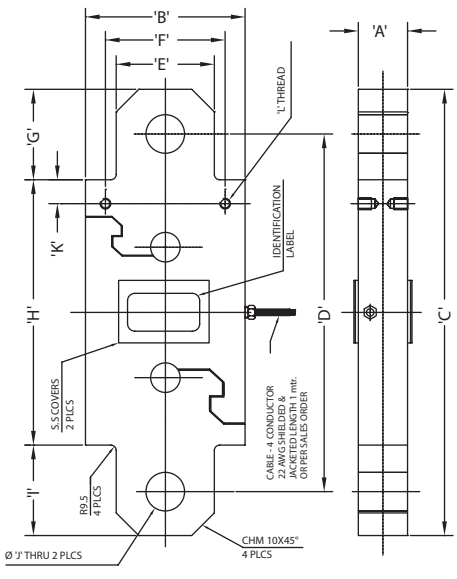
The Model 91002 is an alloy steel shear beam load cell designed for crane scale and hanging scale applications. The load cell design features integrated overload protection for both tension and compression loading with a rated output of 1.5 mV/V.

The Model 91002 is supplied with a Teflon cable which makes the load cell ideal for demanding environments. The design also allows for direct mounting of the weight indicator which is typical for crane scale applications.

OUTLINE DIMENSIONS in millimeters

CAPACITY	A	B	C	D	E	F	G	H	I	J	K	L THREAD
1.5, 3.0, 5.0 t	29.7	69.5	289.0	238.6	50.0	50.0	49.0	130.0	110.0	19.0	10.0	M6 x 1.0, DEEP 12.0, 4 PLCS
7.5, 15.0 t	37.0	120.0	399.5	295.5	73.8	90.0	100.0	199.5	100.0	36.0	18.0	M12 x 1.75 DEEP 12.0, 4 PLCS

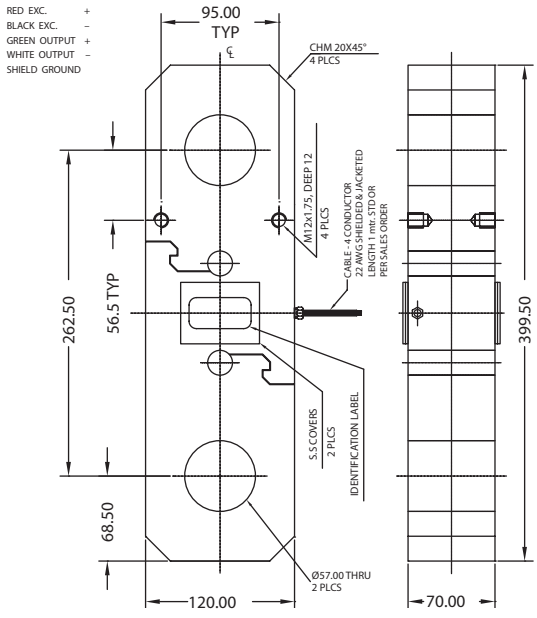
1.5-15.0 t



WIRING

RED EXC.	+
BLACK EXC.	–
GREEN OUTPUT	+
WHITE OUTPUT	–
SHIELD GROUND	

30.0 t



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Crane Scale Load Cell

SPECIFICATIONS		
PARAMETER	**VALUE**	**UNIT**
Rated output—R.O.	1.5	mV/V
Rated output tolerance	5	±% FSO
Zero balance	1	±% FSO
Combined error	<0.050	±% FSO
Non-linearity	<0.030	±% FSO
Hysteresis	<0.020	±% FSO
Non-repeatability	<0.020	±% FSO
Creep error (30 minutes)	<0.020	±% FSO
Temperature effect on zero	<0.002	± %/°C
Temperature effect on output	0.001	± %/°C
Operating temperature range	–20 to +70	°C
Maximum safe central overload	150	% FSO
Ultimate central overload	300	% FSO
Excitation, recommended	10	VDC
Excitation, maximum	15	VDC
Input impedance	360–450	Ω
Output impedance	349–355	Ω
Insulation resistance at 50 VDC	>1000	MΩ
Material	Alloy steel with electroless nickel-plated	
Environmental protection	IP67	

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