

S-Type Alloy Steel Load Cell

FEATURES

- Capacities 1500–5000 kg
- Alloy steel construction
- Sealing: welded to IP67
- S-Type design for use in tension and compression
- 6 Wire cable (sense circuit)

APPLICATIONS

- Hopper (tank weighing)
- Hybrid scales
- Belt weighing
- Lever arm conversions
- Material testing machines
- Vibrations filling equipment
- Dynamometers

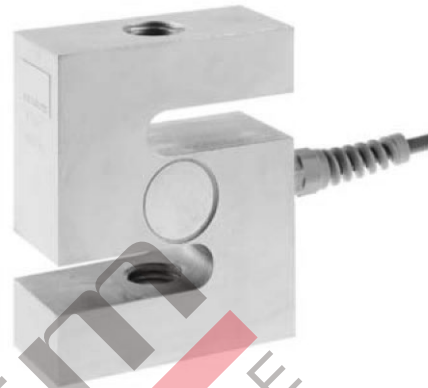
DESCRIPTION

Model 619 is a low cost tension-compression load cell made from nickel plated alloy steel and has bonded covers for additional protection. It is suitable for use in a wide range of weighing, process weighing, force measurement and industrial process control applications.

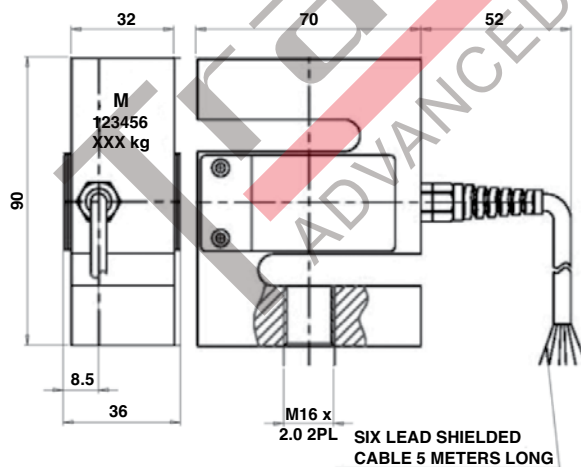
Protected to meet IP67 requirements, the construction of the 619 load cell allows its use in most industrial process applications.

For IP68 requirements, select the fully-welded stainless steel Model 620, which shares the same dimensions as Model 619.

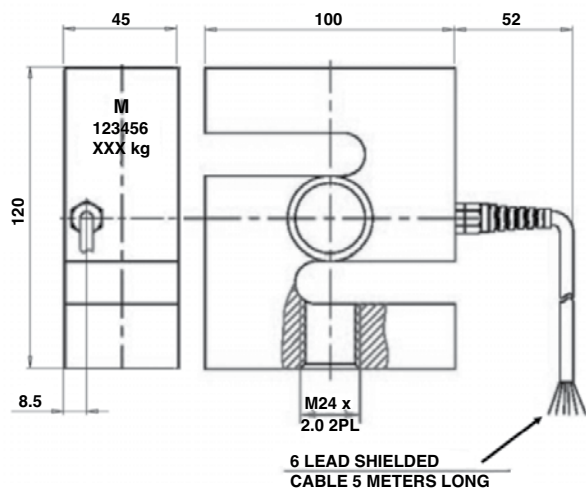
The additional sense wires compensate for changes in lead resistance due to temperature change and/or cable extension. Complete compensation of changes in lead resistance is achieved by feeding this voltage into appropriate electronics.



OUTLINE DIMENSIONS in millimeters



1500, 2000 kg cell outline



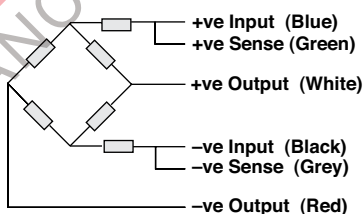
3000, 5000 kg cell outline

S-Type Alloy Steel Load Cell

SPECIFICATIONS		
PARAMETER	VALUE	UNIT
Rated capacity—R.C. (E _{max})	1500, 2000, 3000, 5000	kg
Accuracy class	E G	
Maximum no. of intervals (n)	1000 3000	
Rated output—R.O.	2.0	mV/V
Rated output tolerance	0.002	±mV/V
Zero balance	0.04	±mV/V
Zero return, 30 min.	0.050 0.0170	±% of applied load
Total error	0.050 0.020	±% of rated output
Temperature effect on zero	0.030 0.0040	±% of rated output/°C
Temperature effect on output	0.0030 0.0012	±% of applied load/°C
Temperature range, compensated	-10 to +40	°C
Temperature range, safe	-20 to +70	°C
Maximum safe central overload	150	% of R.C.
Ultimate central overload	300	% of R.C.
Excitation, recommended	10	VDC or VAC RMS
Excitation, maximum	15	VDC or VAC RMS
Input impedance	380±20	Ω
Output impedance	350±3	Ω
Insulation resistance	>2000	MΩ
Cable length	5.0	m
Cable type	6-wire, braided, PVC, dual floating screen	Standard
Construction	Nickel-plated alloy tool steel	
Environmental protection	IP67	

All specifications are subject to change without notice.

Wiring Schematic Diagram



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