



Accurately Weighing Africa



S203

High Precision Loadcell



Sasco is a dynamic weighing solutions focused company which procures and supports a leading range of globally sourced industrial weighing technologies. Sasco has the highest metrological ranking of any Southern and Central African company, and as a result of our experience gained through 100 years of operation, we are uniquely positioned to specify and supply optimal weighing equipment, automation and weighing information data solutions to Southern and Central Africa's leading industrial companies. Sasco reputation has been built on innovation and choice underpinned by professionalism, modernity and experience.

GENERAL

Sasco's Tier I Technology comprises the Bilanciai range of instrumentation, which is recognised as the leader in terms of accuracy, reliability and functionality.

Sasco's Tier II technologies include the S-Series range of loadcells such as the S203. The S203 is a direct trade approved generic replacement to the T203.

The S203 is a high precision, single bridge, strain gauge, shear beam force transducer. The S203 is designed for use in low profile platform scales and loadcell conversions of mechanical scales.

CONSTRUCTION

The S203 is made of anodized aluminum alloy with extra high corrosion resistance. It is therefore robust and protected in the toughest environments.

CAPACITIES

125kg
250kg
500kg

ACCURACY

4000d
6000d

APPROVALS

OIML
Awaiting NRCS approvals

EXAMPLE

Hoppers
Tanks and silos
Mechanical scale conversions
Low profile platform scales
Overhead track scales
Dynamometers

SPECIAL FEATURES

High accuracy
Low profile
Simple to install
Low creep
Excellent repeatability
Environmentally protected

SPECIFICATIONS

Sealed to
BS EN 60529:1992
IP65 & IP67



Emax-Maximum Capacity	Kg	125, 250, 500
Sensitivity	mV/V	125kg: 1.4±0.0014 250kg, 500kg: 1.7±0.0017
Accuracy Class		C3
Maximum Number of Load Cell Interval (nmax)		3000
V Min	g	Emax/7000
Temperature Effect on Zero	%FS/10°C	0.02
Temperature Effect on SPAN	%FS/10°C	0.0175
Combined Error	%FS	0.02
30mins Creep/DR	%FS	0.0167
Input Resistance	Ω	410 ± 50
Output Resistance	Ω	350 ± 3
Insulation Resistance	MΩ	≥ 5000
Zero Balance	%FS	2
Nominal Temperature Range	°C	-10 ~ +40
Operating Temperature Range	°C	-35 ~ +70
Recommended Excitation Voltage	V	5 ~ 12
Safe Load Limit	%FS	150
Ultimate Load Limit	%FS	300
Material		Aluminum
Protection Class		IP66

SPECIFICATIONS

Mountings

The transducer should be mounted using high tensile socket head cap screws tightened to 35Nm.

Loading

This transducer is designed to operate with the load applied to the free end of the beam only.

If loads in excess of the rated capacity are envisaged, then suitable adjustable overload stops should be provided and adjusted to operate between 100% of the rated capacity.

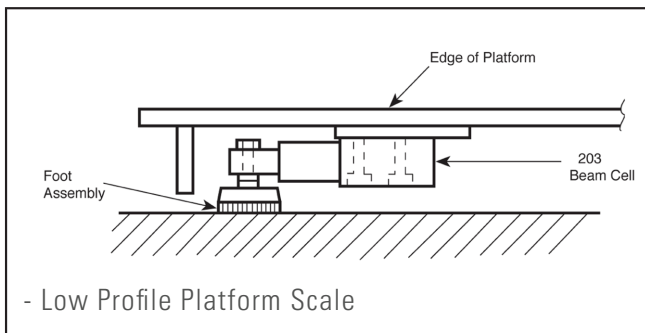
OFF CENTRE LOADING

The transducer can also be used in this manner but the sensitivity can only be guaranteed to $\pm 0.2\%$. The maximum permissible off-centre loadings are:

$x = 50\text{mm}$ at rated capacity

$y = 10\text{mm}$ at rated capacity

$z = 10\text{mm}$ at 80% of rated capacity.



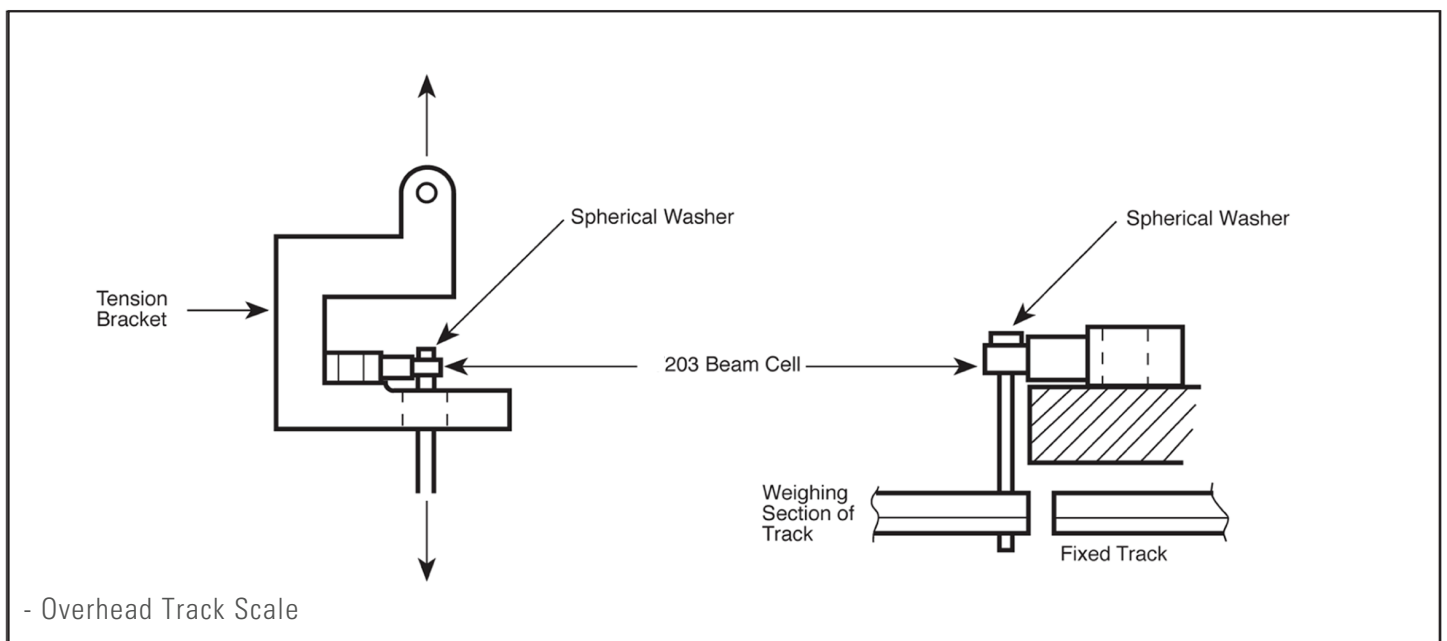
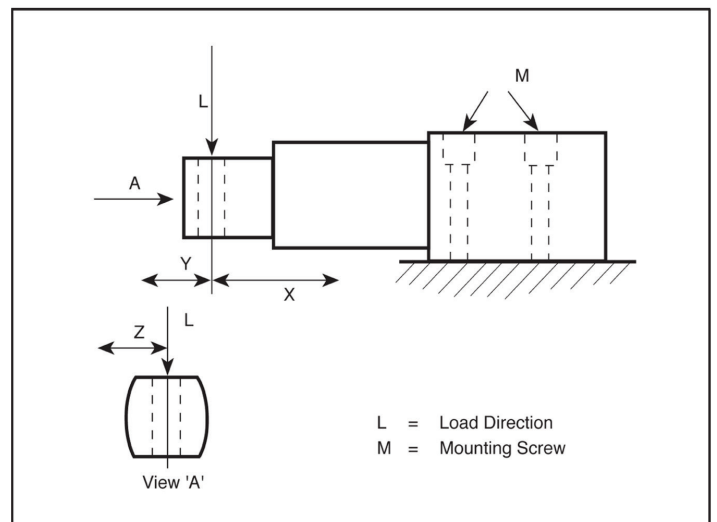
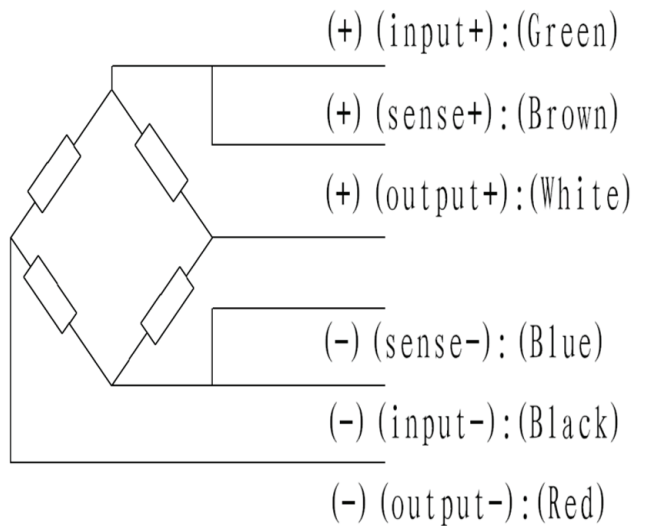
ELECTRICAL TERMINATION

Shield 6-conductor cable.

Cable length: $1.7\text{ m} \pm 0.1\text{ m}$

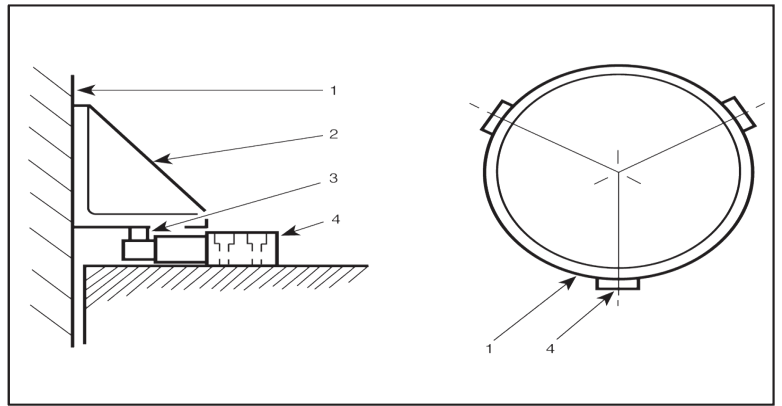
Cable diameter: $5.2 \pm 0.2\text{ m}$

* The shield is not connected to loadcell body.



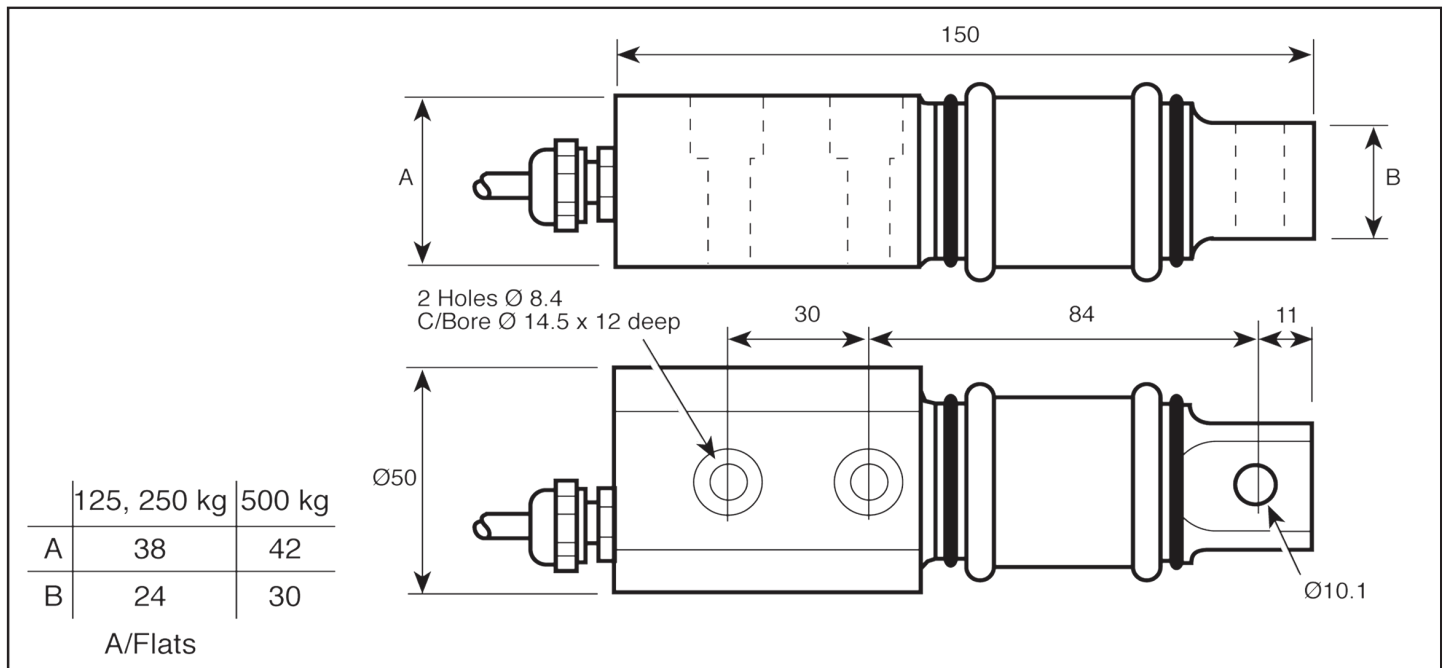
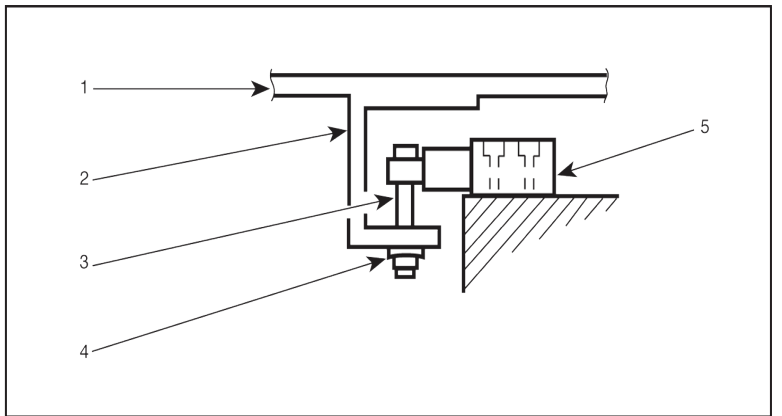
TANK OR HOPER WEIGHER - COMPRESSION

1. Tank or Hopper.
2. Tank Support Bracket.
3. Load Button Insert.
4. S203 Beam Cell.



PLATFORM OR TANK WEIGHER - TENSION

1. Platform or Container Base.
2. Loading Bracket.
3. Tension Link.
4. Spherical Washer.
5. S203 Beam Cell.



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