weightechUSA

BL

Shear Beam Load cell

Widely used for weighing tanks and silos

IP67 IP68

BL - datasheet_v1_r2 - 07/16/2026
Review: Loui Oriqui
Edition: Stéphany

BL

Load cell

One of the most established load cells for weighing tanks and silos in Brazil

LASER SEALED

Protected against submersion and completely sealed against dust and debris. Protection class IP67 for cells up to 2t and IP68 for cells 3t, 5t and 7.5t.

RESISTANT

Developed in hardened steel alloy that provides resistance to aggressive environments.

EXCELLENT VALUE

Highly reliable, easy to install and provide excellent value for money.

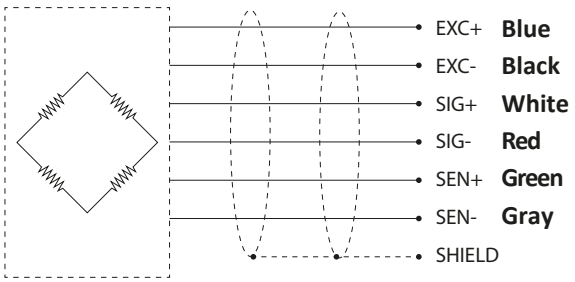
COMPATIBLE SUPPORT

Compatible with SIP-BLME support, whic offers wide tolerance to lateral displacements and has versions in carbon steel or stainless steel.

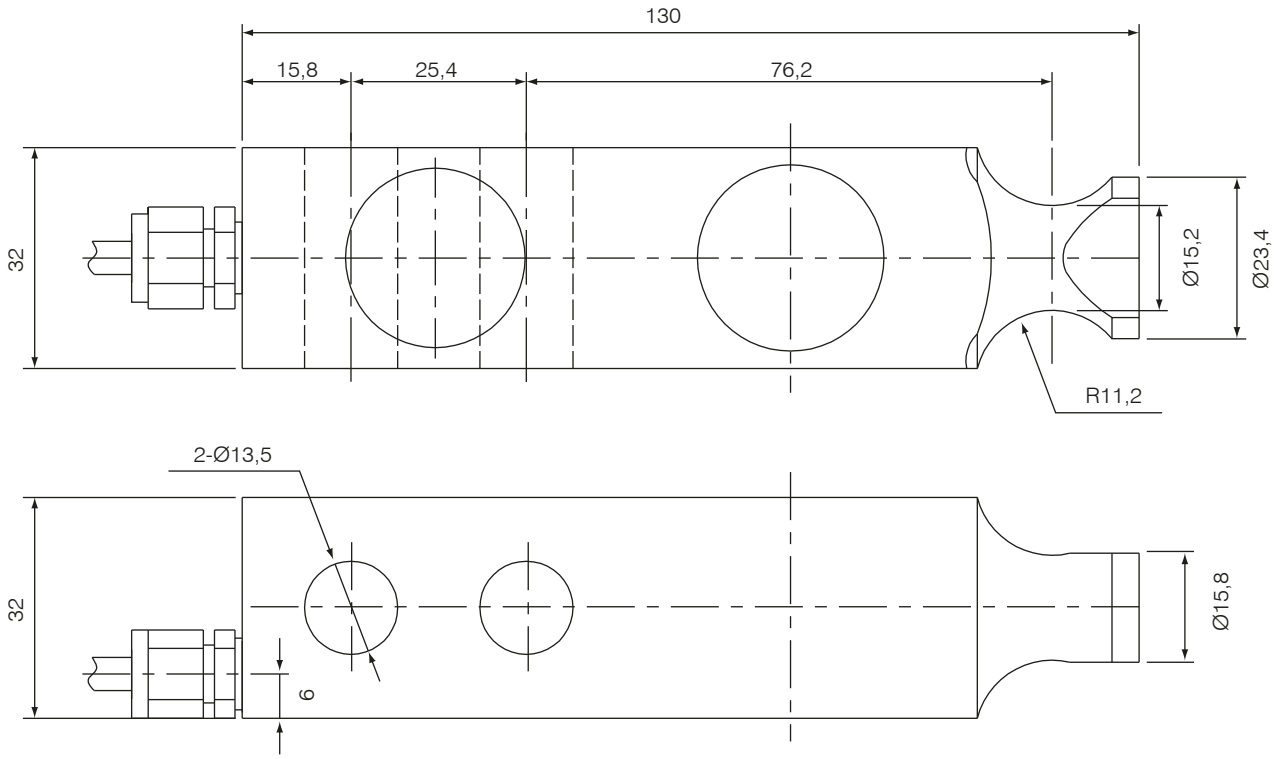
STAINLESS VERSION

Stainless steel version for cells up to 7.5t, which offers broad resistance to bad weather and aggressive areas.

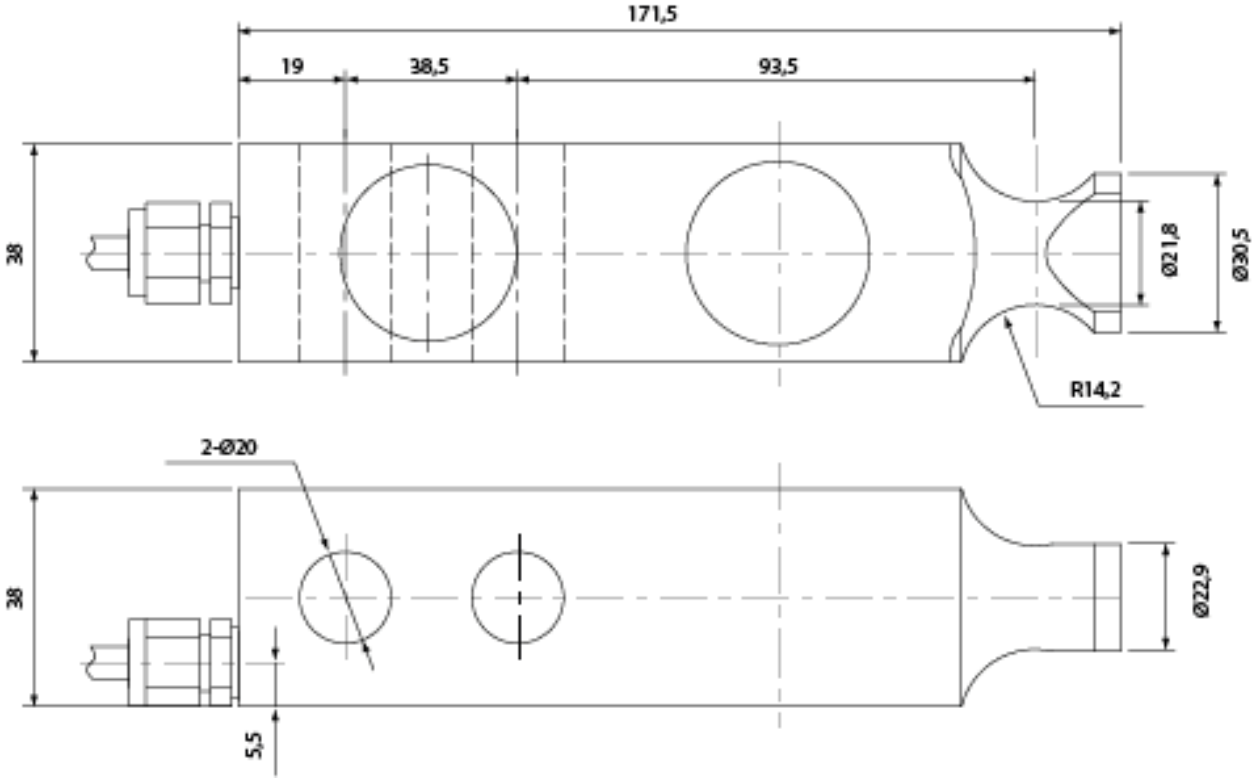
WIRING DIAGRAM



DIMENSIONS FOR UP TO 3t (mm)



DIMENSIONS FOR UP TO 7,5t (mm)



TECHNICAL DATA

Rated load	t	2	3	5	7,5
Sensitivity	mV/V	2,0 ± 0.003			
Total error	%F.S	± 0,05			
Creep (30 minutos)		± 0,03			
Zero balance		± 1			
TCO	%F.S/ 10°C	± 0,02			
TC SPAN		± 0,02			
Input resistance	Ω	400 ± 10		400 ± 20	
Output resistance		352 ± 2		352 ± 3	
Insulation resistance	MΩ	≥ 5000			
Nominal temp range	°C	-10 ~ +40			
Operating temp range		-30 ~ +70			
Save overload	%F.S	150			
Ultimate overload		200			300
Recommend excitation	VDC	5 ~ 12			
Maximum excitation		15			
Protection Class	-	IP67			IP68
Material	-	steel alloy			
Cable	-	length: 5m | Diameter: Ø5mm			

WEIGHTECH CODES

Product's name	Code
Berman BL/250kg Load Cell	11750
Berman BL/500kg Load Cell	11751
Berman BL/1t Load Cell	11752
Berman BL/2t Load Cell	11753
Berman BL/3t Load Cell	11754
SIP-BL/2t weighing module	30151