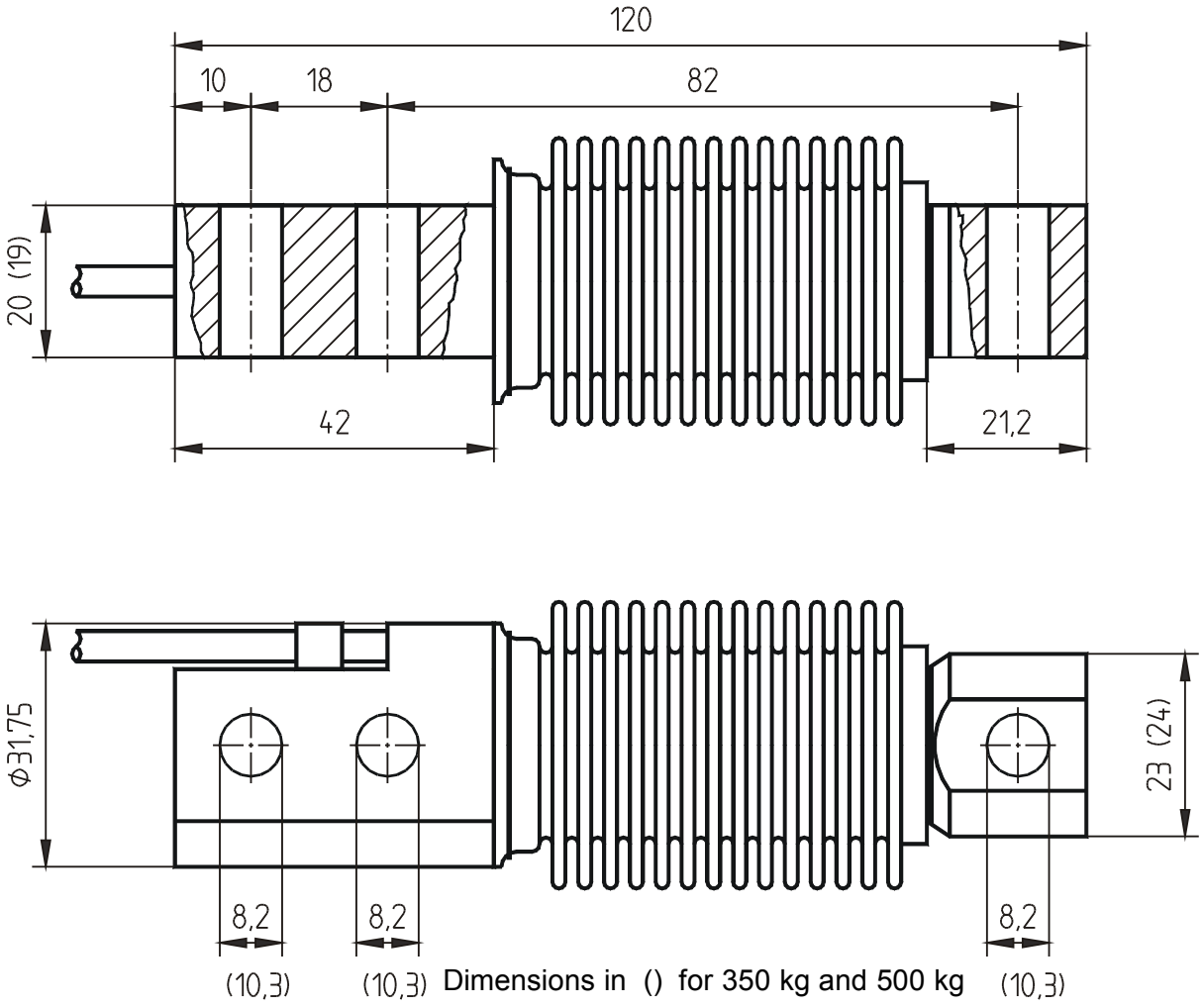
Load cell LCB120

Nominal load ranges (compression): 5kg, 10kg, 20kg, 50kg, 100kg, 200kg, 350kg, 500kg

This load cell for small loads up to 500kg is hermetically sealed by welding and hence, can also be used under rough ambient conditions. It is used in packing machines, in conveyor-type weighers, in the foodstuffs industry and in industrial weighers.
The output current calibration allows the parallel connection of the load cells for operation on a common measuring amplifier without additional equalization.
The load cell LCB 120 conforms to the stringent European requirements for use in calibration-obligatory weighing scales. The method of protection corresponds to IP 66/68.

Dimensions



Dimensions in () for 350 kg and 500 kg

Load cell LCB120

Nominal load ranges (compression): 5kg, 10kg, 20kg, 50kg, 100kg, 200kg, 350kg, 500kg

Technical Data

load cell	Tension / compression
Construction	Bending beam
Material	Stainless steel 1.4542
Accuracy classes	CC (0.05) C2 (0.023%) C3 (0.02%), C4 (0.017%)
Nominal loads (F_N)	5*kg ... 500kg, 5kg only in CC-design

Accuracy class according to OIML R60	CC	C2	C3	C4	
Maximum scale division value		2000	3000	4000	
Minimum scale division value		F_N / 10000	F_N / 15000	F_N / 15000	
Minimum utilization range		20	20	25	% S_N
Combined error	< ±0.05	< ±0.023	<±0.020	<±0.017	% S_N
Zero point return error (30 min)	< ±0.05	< ±0.025	< ±0.0167	< ±0.0125	% S_N
Creep error (30 min)	< ±0.06	< ±0.0245	< ±0.0245	< ±0.0184	% S_N
Temp. coeff. of the zero signal	< ±0.025	< ±0.0070	< ±0.0047	< ±0.0047	% F_N / 5°C
Temp. coeff. of the nominal output	< ±0.025	< ±0.0060	< ±0.0050	< ±0.0045	% S_N / 5°C

Operating load	150	% F_N
Breaking load	300	% F_N
Maximum lateral load	100	% F_N

Nominal temperature range	-10...+40	°C
Operating temperature range	-40...+80	°C
Storage temperature range	-40...+90	°C

Nominal output (S_N)	2.00 ± 0.02	mV/V
Zero signal tolerance	±2	% F_N
Max. supply voltage	12	V
Input resistance	460 ± 50	Ohm
Output resistance	350 ± 3.5	Ohm
Insulation resistance	> $5 \cdot 10^9$	Ohm
Connection, 4 conductor open	3	m

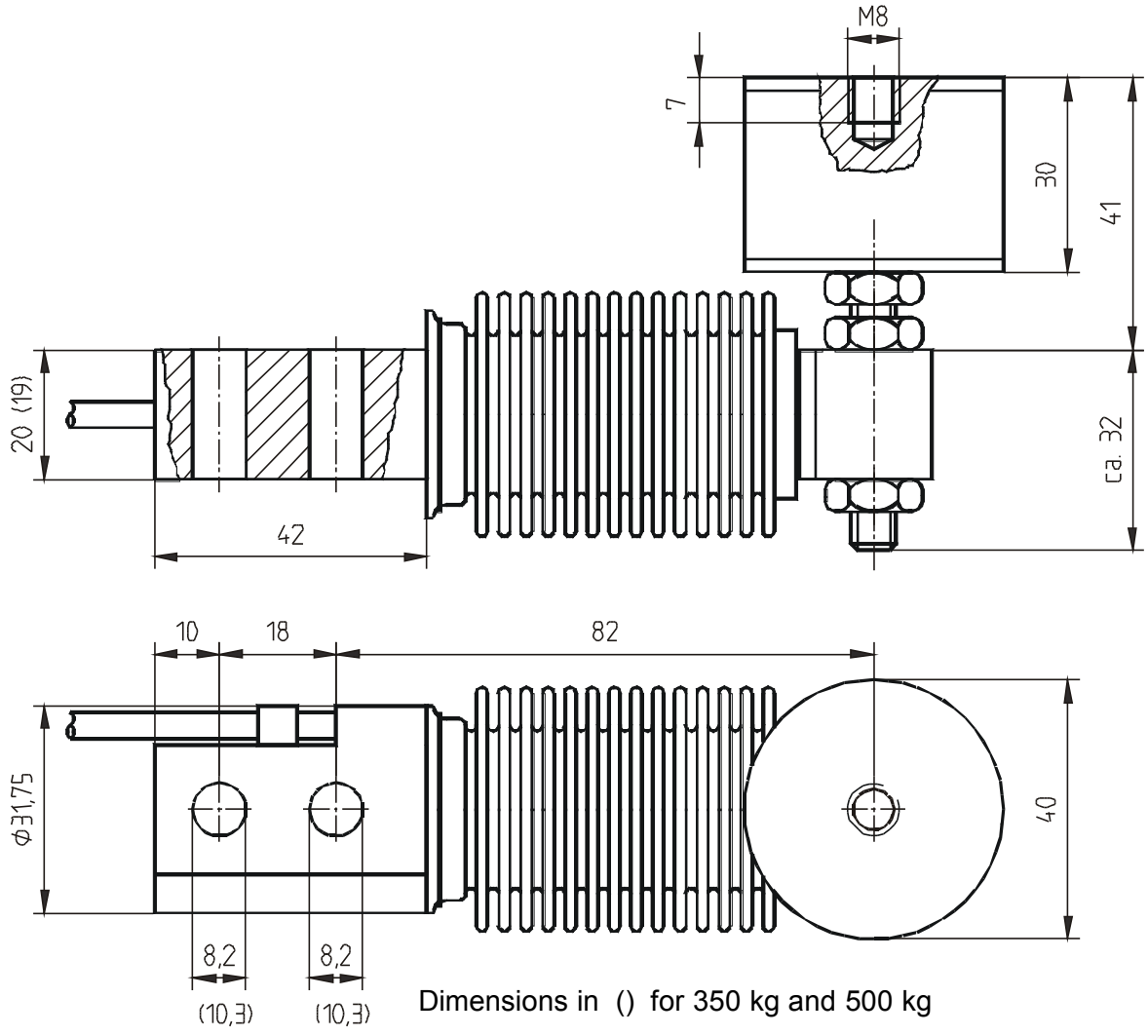
Pin configuration

+U_S	positive bridge supply	green		
-U_S	negative bridge supply	black		shield: transparent
+U_D	positive bridge output	white		
-U_D	negative bridge output	red		

EL 40 for load cell LCB 120

The elastomer bearing serves as a connection between the load cells and the weighing table.
The elastomer bearing is adjustable in its height, so that a uniform load distribution can be adjusted even with four load cells on an uneven foundation.
The elastomer bearing is robust and absorbs load impacts, e.g. when used in conveyor type weighers.

Dimensions

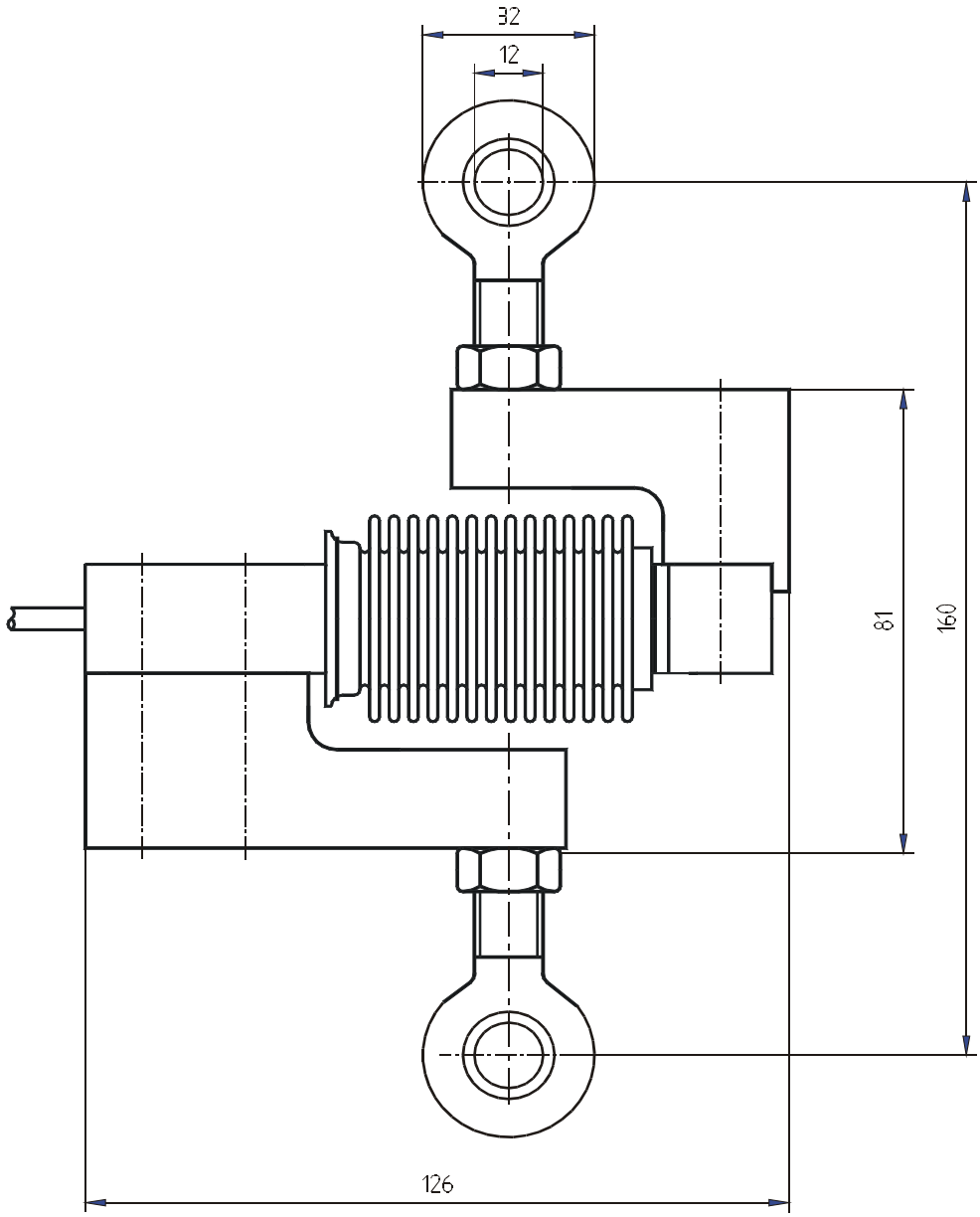


Dimensions in () for 350 kg and 500 kg

Pulling tool for load cell LCB 120

The pulling tool consists of 2 rod ends and 2 force transmission holders.
By setting up the pulling tool the load cell LCB 120 can be used for measurement of tensile loading within a rope.

Dimensions



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