Force Sensor SHBxR 50kg/C3

Item number: 682



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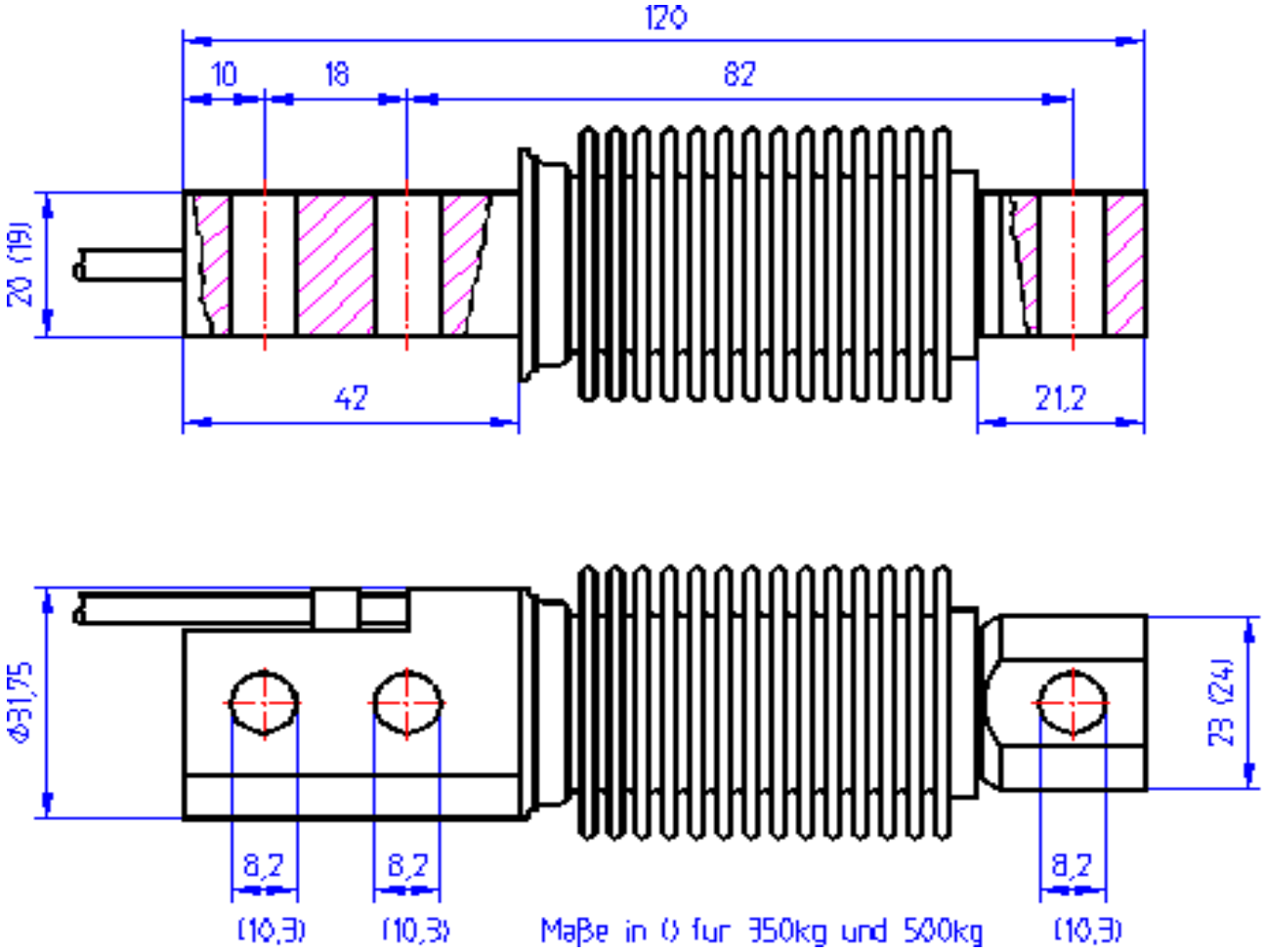
Stand: 20.03.2026

Technical Drawing



Technical Data

Basic Data		Unit
Type	Wägezelle	
Force direction	Tension/Compression	
Rated force Fx	50	kg
Material	Stainless steel	
Dimensions	120mm x Ø 39mm	
Breaking force	300	%Fs
Variants	10kg... 500kg	

Electrical Data		Unit
Input resistance	460	Ohm
Tolerance input resistance	50	Ohm
Output resistance	350	Ohm
Tolerance output resistance	3.5	Ohm
Insulation resistance	5	GOhm
Rated range of excitation voltage from	2.5	V
Rated range of excitation voltage to	5	V
Operating range of excitation voltage from	1	V
Operating range of excitation voltage to	10	V
Zero signal	2	%Fs
Rated output	2	mV/V
relative error of characteristic value	0.02	mV/V

Accuracy Data	Unit

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OIML Accuracy Data		Unit
OIML accuracy class	C3	
Maximum no. of intervals (n)	3000	
Zero return, 30 min.	0.0245	±% of nominal load
Total error	0.02	±% S
Temperature effect on zero	0.0047	±% of nominal load S/5°C(/°F)
Temperature effect on output	0.005	±% of nominal load/5°C(/°F)
Combined error	0.01	±% S
Minimum dead load output return	0.0167	±% der Nennlast

Environmental Data		Unit
Rated temperature range from	-10	°C
Rated temperature range to	40	°C
Operating temperature range from	-40	°C
Operating temperature range to	80	°C
Storage temperature range from	-40	°C
Storage temperature range to	90	°C
Environmental protection	IP66/68	

Abbreviation : RD: „Reading"; FS: „Full Scale";1) The exact nominal sensitivity is indicated in the test report;2) Nominal output for LCS130 250kg is 0,1%.

Pin Assignment

Channel	Symbol	Description	Wire color	PIN
	+Us	positive bridge supply	green	
	-Us	negative bridge supply	black	
	+Ud	positive bridge output	red	
	-Ud	negative bridge output	white	

Shield- transparent.

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