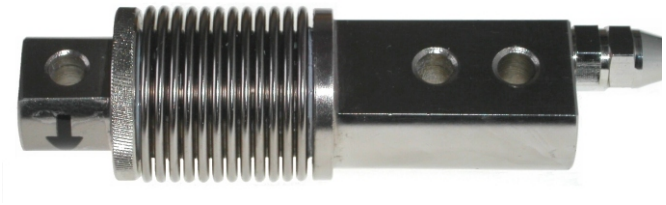
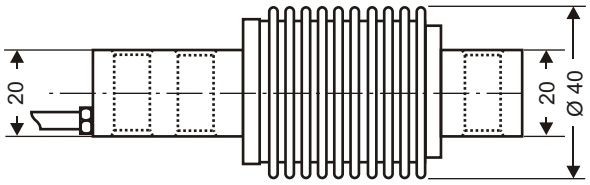
Bending beam load cell

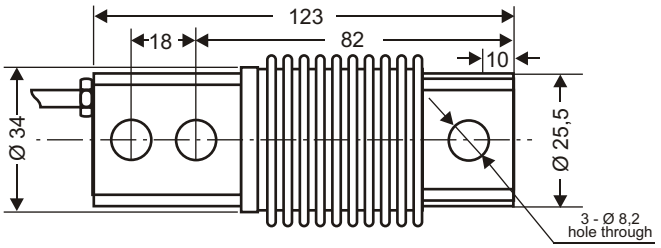
Characteristics



Ranges: 0...5 kg up to 0...500 kg
Output: 2 mV/V ±0,002
Voltage supply: 9...12 V DC/AC
Combined error: 0,02% of end scale value
Zero unbalance: ±1% of end scale value
Degree of protection: IP67
Material: alloy steel, stainless steel
Compensated temperature range: -10...+40°C
Connection: 3 m cable, 4-wire, shielded

Dimensions





Technical data

Input

Capacity:	5 / 10 / 20 / 30 / 50 / 100 / 200 / 350 / 500 kg
Input resistance:	400 Ohm ±5 Ohm
Insolation resistance:	>5000 Mohms at 50 VDC
Overload:	safe overload 120% of end scale value ultimate overload 150% of end scale value

Output

Rated output:	2,0 mV/V ± 0,002
Output resistance:	350 ohms ±3 Ohm

Accuracy

Combined error:	0,02% of end scale value
Zero unbalance:	±1% of end scale value
Linearity:	0,02% of end scale value
Hysteresis:	0,02% of end scale value
Repeatability:	0,02% of end scale value
Creep:	0,02% of end scale value / 30 min
Temp. effect on output	0,02% of end scale value / 10°C
Temp. effect on zero	0,02% of end scale value / 10°C

Supply

Recommended excitation:	9...12 V DC/AC
Maximum excitation:	18 V DC/AC

Ambient conditions

Temperature compensated	-10...+40°C
Operating temperature	-35...+65°C

Mechnics

Material load cell:	CEXX0...: alloy steel CEXX1..: stainless steel
Degree of protection:	IP 67
Connection:	3 m cable, 4-wire, shielded

Applications

For use in all ranges where weigths have to be measured, e.g. in electronic vehicle scales, in track scales, hoppers and silos in loading plants for ports and terotechnology.

Ordering Code

C	E	X	X	X	X	X	X	-	X	X	X

Output	2 mV/V	0										
Capacity:	5 kg		0									
	10 kg		1									
	20 kg		2									
	30 kg		3									
	50 kg		4									
	100 kg		5									
	200 kg		6									
	350 kg		7									
	500 kg		8									
Material:	alloy steel			0								
	stainless steel			1								
Protection:	IP 67				0							
Other / accessories:	on request											0

Example connection