

Rocker Pin Load Cell CB50X with a Rated Load of 5 ... 60 t



Data sheet

Performance Features

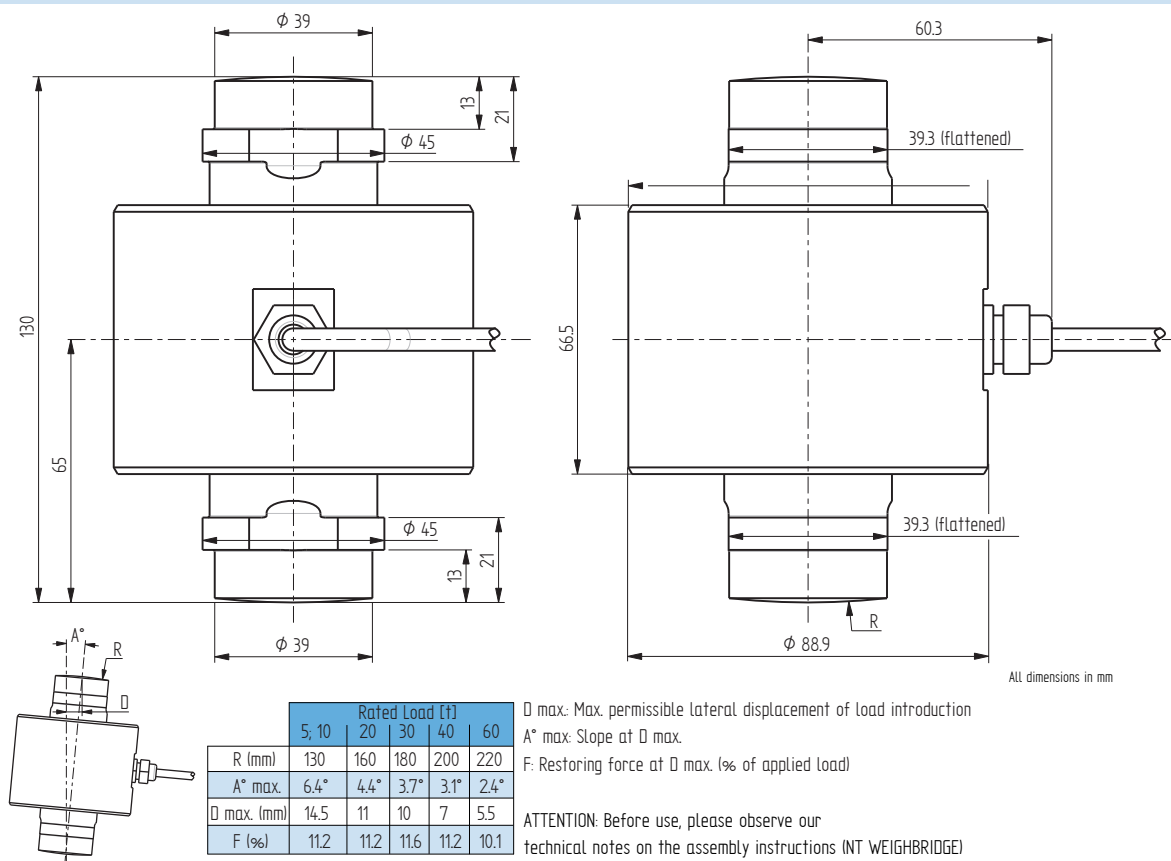
- Rocker Pin Load Cell made of stainless steel
- Protection class IP68, welded
- 4000d OIML R60 approved
- Spherical and self centering base
- Anti-rotating system included
- Ideally suited for weighbridge use and silo weighing
- Surge protection (option)
- Anti-rodent shielded cable (option)
- ATEX 2014/34/EU version for hazardous area (option)

Application

- Food industry
- Coal and steel industry
- Chemical / pharmaceutical industry
- Waste management / recycling
- Packaging technology



Dimensions in mm



Article-No.	Version	Rated load [t]
105147	C4 10e	5
105209	C4 10e	10
105214	C4 10e	20
105148	C4 10e	30
105215	C4 10e	40
105216	C4 10e	60

Connection Assignment

Electrical Connection

Function	Wire Color
Excitation (+)	Red
Signal (+)	White
Signal (-)	Yellow
Excitation (-)	Blue

Technical Data

Type	CB50X	
Version		C4 10e
Rated load E	t	5; 10; 20; 30; 40; 60
Maximum load for approved weighing E_{max}	t	5; 10; 20; 30; 40; 60
Accuracy class OIML R60		C4
Maximum numbers of load cell intervals n_{max}	d OIML	4000
Minimum verification interval v_{min}	t	$E_{max}/10000$
Creep division factor $Z = E_{max}/2 \times DR$		4000
Combined error	% E	±0.013
Temperature coefficient of zero signal	% E/°C	±0.0014
Temperature coefficient of characteristic value	% E/°C	±0.0011
Load creep d_{cr, F} in 30 min.	% E	±0.018
Zero balance	% E	±2.5
Rated output at E C_{nom}	mV/V	2 ±10 %
Rated range of excitation voltage B_{U, nom}	V	1 ... 15
Input resistance R_e	Ω	815 ±20
Output resistance R_a	Ω	700 ±0.35
Signal adjustment	% E	0.1
Insulation resistance R_{is}	MΩ/50V	5000
Electrical connection		Cable, PVC, 15 m
Material cable gland		Nickel plated steel
Rated temperature range B_{T, nom}	°C	-10 ... 40
Operating temperature range B_{T, G}	°C	-20 ... 60
Limit load E_{lim}	% E _{max}	150
Breaking load E_B	% E _{max}	300
Level of protection	EN 60529	IP68
Material		Stainless steel
Weight	kg	3

Options

Article-No.	Description
107798	ATEX 2014/34/EU, IECEx: ex II 1 G/D, Ex ia IIC T6 Ga, Ex ia IIIC T80 °C Da, IP6X, -20 °C < Ta < +60 °C (zones gaz 0/1/2, dust 20/21/22)
115049	ATEX 2014/34/EU, IECEx: ex II 1 D, Ex ta IIIC T125 °C Da, IP6X, -20 °C < Ta < +60 °C (zones dust 20/21/22)
115048	ATEX 2014/34/EU, IECEx: ex II 3 G, Ex nA IIC T6 Gc, -20 °C < Ta < +60 °C (zone gaz 2) ¹
	Gas discharge tube as surge protection (GDT option): 10 kA / 20 kV (8/20 μs) - IEC 61000-4/5
	Anti-rodent shielded cable

Accessories

Electrical Connection

Article-No.	Description
10323	Male cable connector KS6 (6-pin, Series 581) incl. mounting
10320	Male cable connector KSSH15 (15-pin) incl. mounting
43418	Input connector ZA9612FS (ALMEMO) incl. sensor mounting and connector calibration
49205	Input connector ZKD712FS (ALMEMO 202) incl. sensor mounting and connector calibration

¹ Except GDT option

Accessories (continued)

Assembly kit

Article-No.	Description	Material	
105220	Mounting kit Stabican 30t	Zinc plated steel	
105219	Mounting kit Stabican 30t	Stainless steel	
111186	Mounting kit STABICAN 60t	Zinc plated steel	
110653	Cups kit LPC	Zinc plated steel	
108590	Fastening and cups kit LPM	Zinc plated steel	
111187	Fastening and cups kit LPM-X	Stainless steel	
110654	Self aligning kit LPS	Zinc plated steel	

Further suitable accessories you can find on our homepage under:
<https://www.lorenz-messtechnik.de/english/products/load-cells.php>