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Instruction Manual / Data sheet

CD P1

V. 1.0
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GB



PROFESSIONAL MEASURING

CD P1-BA-e-1810



SAUTER CD P1

V. 1.0 12/2018

Instruction Manual / Data sheet

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1 Short description

- Stainless steel IP68 (acc. to EN 60529) compression load cell
- Force measuring compatible
- RoHS conform
- Suitable for vehicle and hopper scales and vehicle testing facilities, test stands
- Accuracy OIML R60 C3
- OIML certificated
- Option on request: EX, Accuracy C4

2 Available models

Capacity	Model
10t	CD 10-3P1
20t	CD 20-3P1
40t	CD 30-3P1
50t	CD 50-3P1

3 Introduction

Please pay attention to the notes of the operating manual: read these operating manual carefully before commissioning, even if you already have experience with SAUTER measuring cells.

After receiving the measuring cell, it should be checked in advance whether no transport damage has occurred, whether the outer packaging or other parts or even the article itself has been damaged. If any damage is evident, please inform SAUTER GmbH immediately.

4 Warning notes

Observe the national accident prevention regulations.

Not correct executed use of the measuring cell can lead to serious injuries, death, material damage and personal injuries. Use only by trained and experienced people. Never load more than the max. capacity to a measuring cell. Overloaded measuring cells no longer have the required accuracy. Overloaded or deformed measuring cells are no longer allowed to use and must be changed quickly.

Never step under suspended loads.

Always fasten overload- or break security to your construction.

Pay attention to the allowed static and dynamic loads of the used equipment.

Let the measuring cells calibrate at regular intervals.

Only load the measuring cell in its specified load direction. Avoid lateral forces.

Control the measuring cells to deformations and cracks.

Measuring cells with 4-Conductor cable will change their characteristic value when shortened or extended the cable length.

5 Warranty

The warranty expires at:

- Disregard of the specifications of the operating manual
- Modification or opening the measuring cell

- Overload
- Mechanical damages
- Damage caused by liquids or media
- Natural loss
- Not correct installation

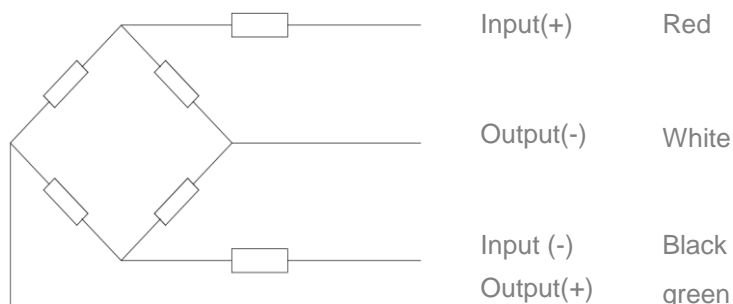
6 Detailed specifications

Output sensitivity (FS)	mV/V	2.0 ± 0.002
Maximum capacity (E _{max})	t	10, 20, 40, 50
Max.number of load cell intervals	n _{LC}	3000
Ratio of min. LC verification interval	$Y = E_{max} / V_{min}$	10000
Combined Error	%FS	≤± 0.023
Minimum dead load	Of E _{max}	0%
Safe overload	of E _{max}	150 %
Ultimate overload	of E _{max}	300 %
Zero balance	of FS	< ± 1.0 %
Excitation, recommended voltage	V	5 ~ 12
Excitation maximum	V	18
Input resistance	Ω	700 ± 7
Output resistance	Ω	703 ± 4
Insulation resistance	MΩ	≥5000 (at 50VDC)
Compensated temperature	°C	-10 ~+40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70

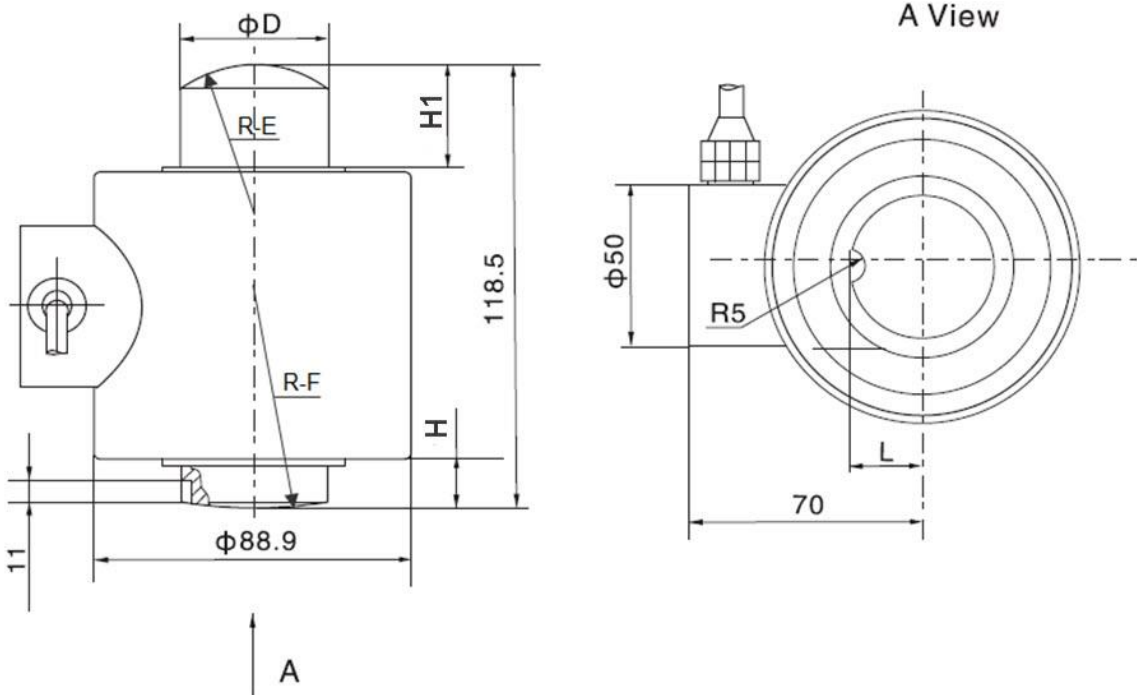
7 Wiring

Shielded, 4 conductor cable. Cable diameter: Ø5mm. Standard cable length: 15m.
Shield not connected to element

4-wire diagram



8 Dimensions in mm



Dimension Capacity	ϕD	L	R-E	R-F	H	H1
10-20t	40	22	37.5	150	14	31.5
40-50t	50	27	200	200	21	24.5

9 Certificate of Compliance

The Certificate of Compliance can be downloaded from the website www.sauter.eu