



Sauter GmbH

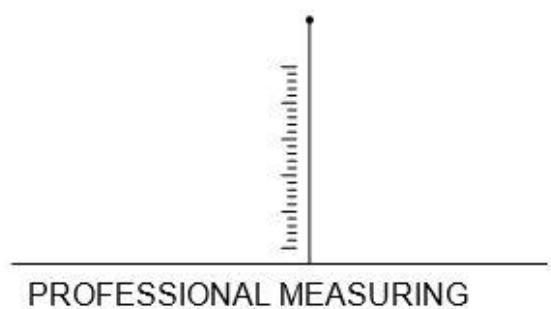
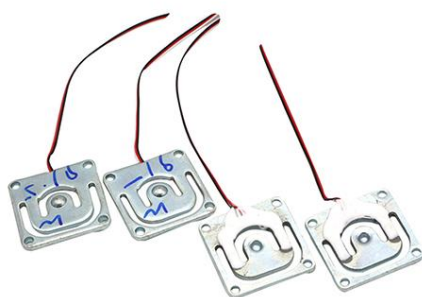
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User manual / Data sheet

SAUTER CK Y4

V. 2.0
03/2025
GB



CK Y4-BA-e-2520



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V. 2.0 03/2025

User manual / Data sheet

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1 Brief description

- Alloy steel load cell set
- Scope of delivery: 1 set (4 pieces)
- Quarter bridge circuit: 4 load cells are connected to form a full bridge
- no junction box necessary
- no corner adjustment possible
- Very low design
- High precision (comprehensive error 0.05% F.S.)
- OIML Class C1
- Protection class IP65
- RoHS compliant
- Suitable e.g. for the construction of personal, kitchen, post office scales or other scales with lowest installation height

2 Available models

Nominal load (per	Model
40 kg	CK 10-Y4
120 kg	CK 30-Y4
200 kg	CK 50-Y4

3 Introduction

Please observe the notes in the operating instructions: Please read this operating manual carefully before commissioning, even if you already have experience with SAUTER measuring cells.

After receipt of the measuring cell, it should be checked in advance to ensure that no transport damage has occurred, that the repackaging or other parts or even the article itself have not been damaged. If any damage is evident, please notify SAUTER GmbH immediately.

4 Warnings

Observe the national accident prevention regulations.

Incorrect use of the measuring cells can lead to serious injury, death, damage to property and personal injury. Use may only be carried out by trained and experienced personnel.

Never load measuring cells beyond the range E_{max} (nominal load, max. capacity). Overloaded measuring cells no longer have the required accuracy. Overloaded or deformed measuring cells must not be used any further and must be replaced immediately.

Never step under suspended loads.

Always install overload or breakage protection on your system.

Always observe the permissible static and dynamic loads of the accessories you use.

Have measuring cells calibrated at regular intervals.

Only load the measuring cell in the direction indicated. Avoid lateral forces.

Check the measuring cells regularly for deformations and cracks.

For measuring cells with 4-wire connection, the characteristic value changes by shortening or lengthening the supplied cable.

5 Warranty

The warranty expires with:

- Disregarding the instructions in the operating manual
- Change or open the measuring cell
- Overload
- Mechanical damage
- Damage by liquids or media
- Natural wear and tear
- Improper setup or electrical installation

6 Technical data

Output sensitivity (FS)	mV/V	1	1,8
Maximum capacity (Emax)	kg	40 (4x10)	120 (4x30) 200 (4x50)
Comprehensive Error	%F.S.	$\leq \pm 0.05$	
Zero balance	%F.S.	± 1	
Creep	%F.S./30min	± 0.05	
Temperature effect on span	%F.S./10°C	± 0.05	
Temperature effect on Zero	%F.S./10°C	± 0.05	
Safe overload	of Emax	120 %	
Ultimate overload	of Emax	150 %	
Excitation, recommended voltage	V	9 ~ 12	
Input resistance	Ω	1050 ± 10	
Output resistance	Ω	1000 ± 50	
Insulation resistance	M Ω	≥ 5000	
Operating temperature	°C	-20 ~ +65	

7 Electrical connection

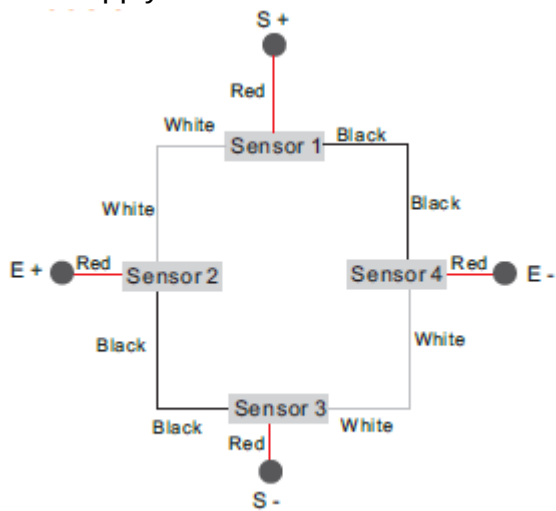
Shielded cable, shield not connected to element, cable diameter Ø5mm,
Standard cable length: 0,4m

S+ = Signal +

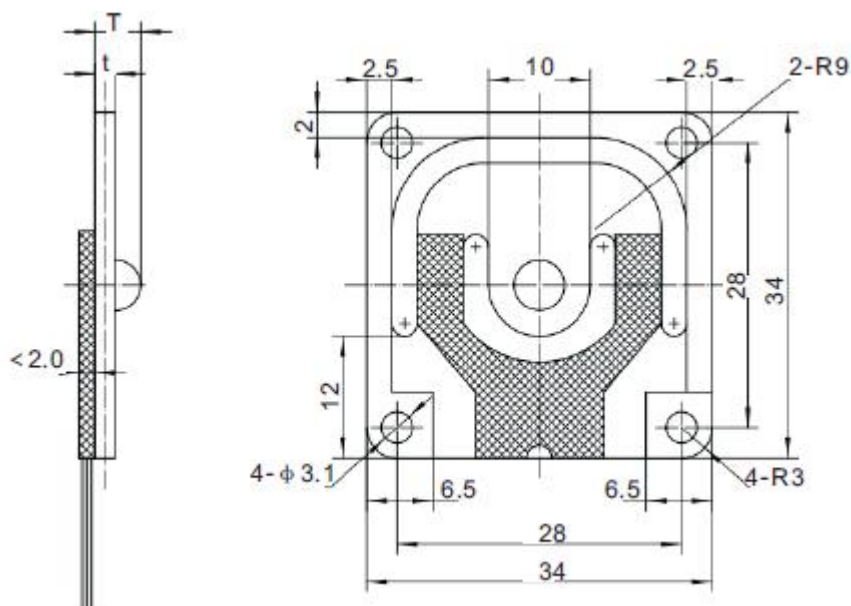
S- = Signal -

E+ = supply +

E- = Supply -



8 Dimensions in mm



Nominal load	t	T
40 kg	1,5	3,5
120 kg	2	4
200 kg	2,5	4,5

9 Declaration of conformity

To view the CE declaration, please click on the following link:

<https://www.kern-sohn.com/shop/de/DOWNLOADS/>