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LOAD CELLS

Accuracy classes with nominal loads from 300 g to 100 t and protection classes up to IP69K as well as cells protected according to ATEX or OIML approved cells are available to you from now in the SAUTER product range. Whatever the project – whether it's the development of customised weighing systems, installation in silos and storage tanks or in shelving for continuous inventory, for special application in mechanical engineering or in any type of test bench – SAUTER can offer you just the right load cell.

Of course, we can also supply you with the appropriate accessories such as load corners, pivot heads, display devices, junction boxes or the relevant calibration certificate at the same time.

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item?

No problem, our product specialist for force-load cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.



Everything about load cells in the SAUTER catalogue 2025.

BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV

FORCE MEASUREMENT

Load cell + SAUTER FL + Software

BALANCE MANUFACTURE

Load cell + display device

BALANCE MANUFACTURE

Load cell + KERN YKV + KERN Software BalanceConnection

BALANCE MANUFACTURE

Load cell + Junction Box + display device



SAUTER load cells – integration opportunities



CP P4 · CP Y4
Single-point load cell made from anodised aluminium

Technical data

- CP P4: Accuracy in accordance with OIML R60 C3
- CP Y4: Accuracy in accordance with OIML R60 C2
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 200×200 mm
- Nominal sensitivity: 0,9 mV/V
- 4-wire connection
- Cable length approx. 0,4 m

CP P1 · CP Y1
Single-point load cell made from anodised aluminium

Technical data

- CP P1: Accuracy in accordance with OIML R60 C3
- CP Y1: Accuracy in accordance with OIML R60 C2
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 250×350 mm
- Nominal sensitivity: 2 mV/V
- 4-wire connection
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P3
Single-point load cell made from anodised aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 350×400 mm
- Nominal sensitivity: 2 mV/V
- 4-wire connection
- Cable length approx. 3 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

STANDARD OPTION

STANDARD OPTION

CP P1

STANDARD OPTION

Model	Nominal load
KERN	kg
CP 300-0P4	0,3
CP 600-0P4	0,6
ECO design	
CP 300-0Y4	0,3
CP 1500-0Y4	1,5
CP 3000-0Y4	3

Model	Nominal load	Cable length
KERN	kg	m
CP 3-3P1	3	0,4
CP 3-2-3P1	3	2
CP 5-3P1	5	0,4
CP 6-3P1	6	0,4
CP 8-3P1	8	0,4
CP 10-3P1	10	0,4
CP 10-3-3P1	10	3
CP 15-3P1	15	0,4
CP 15-3-3P1	15	3
CP 20-3P1	20	0,4
CP 30-3P1	30	0,4
CP 35-3P1	35	0,4
CP 35-3-3P1	35	3
CP 40-3P1	40	0,4
CP 50-3P1	50	0,4
CP 50-2-3P1	50	2
ECO design (without EC type approval)		
CP 3-2Y1	3	0,45
CP 5-2Y1	5	0,45
CP 10-2Y1	10	0,45
CP 15-2Y1	15	0,45
CP 20-2Y1	20	0,45
CP 30-2Y1	30	0,45
CP 100-3-3Y1	100	3

New model

Model	Nominal load
KERN	kg
CP 30-3P3	30
CP 40-3P3	40
CP 50-3P3	50
CP 75-3P3	75
CP 100-3P3	100

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at the internet



CP P2
Single-point load cell
made of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium alloy, anodized
- Suitable for price computing scales, bench scales etc.
- Maximum platform size
CP P2, 100 – 300 kg: 400×400 mm
CP P2, 400 – 500 kg: 450×450 mm
- CP P2: 4-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length
CP P2: 2 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P7
Single-Point load cell
made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529)
- Stainless steel
- Area of application: Mass as well as compressive force measurement in harsh environmental conditions
- Suitable for price computing scales, bench scales etc.
- Maximum platform size: 400×400 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 1 m
- Note: Version in accordance with OIML R60 C4 on request

CP P8
Single-point load cell
made of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium alloy, anodized
- Suitable for price computing scales, bench scales etc.
- Maximum platform size 600×600 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length 3 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

STANDARD: IP 65, 1 DAY
OPTION: DAkkS +3 DAYS, ISO +4 DAYS

STANDARD: IP 67, 1 DAY
OPTION: DAkkS +3 DAYS, ISO +4 DAYS

STANDARD: IP 65, 1 DAY
OPTION: DAkkS +3 DAYS, ISO +4 DAYS

Model	Nominal load
KERN	kg
CP 100-3P2	100
CP 150-3P2	150
CP 200-3P2	200
CP 300-3P2	300
CP 400-3P2	400
CP 500-3P2	500

Model	Nominal load
KERN	kg
CP 30-3P7	30
CP 50-3P7	50
CP 75-3P7	75
CP 100-3P7	100
CP 150-3P7	150

Model	Nominal load
KERN	kg
CP 50-3P8	50
CP 100-3P8	100
CP 150-3P8	150
CP 200-3P8	200
CP 250-3P8	250
CP 300-3P8	300
CP 500-3P8	500
CP 600-3P8	600



CR Q1
Load cell made from stainless steel





Technical data

- Accuracy in accordance with OIML R60 C1
- RoHS compliant
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Measuring mass as well as compressive force
- Suitable for vehicle scales, weigh hoppers, vehicle testing equipment, test stands
- Nominal sensitivity: 2 mV/V
- Cable length 10 m

Accessories

- Load corner, steel, galvanised, suitable for CR Q1
 - [Max] ≤ 10 t: SAUTER CE Q42901
 - [Max] ≥ 20 t: SAUTER CE Q42902
- Load corner, steel, stainless, suitable for CR Q1
 - [Max] ≤ 10 t: SAUTER CE RQ42901
 - [Max] ≥ 20 t: SAUTER CE RQ42902



STANDARD	OPTION
 IP 68	 ISO
 1 DAY	 +4 DAYS
	[Max] ≤ 25 t / 250 kN

Model Nominal load

KERN

CR 2500-1Q1	2,5 t/25 kN
CR 5000-1Q1	5 t/50 kN
CR 10000-1Q1	10 t/100 kN
CR 20000-1Q1	20 t/200 kN
CR 30000-1Q1	30 t/300 kN






CR P1
Load cell made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Measuring mass as well as compressive force
- Suitable for weighbridges, handing scales, silo scales and other types of balances, test stands, etc.
- Nominal sensitivity: 1 – 2 mV/V, depending on nominal load
- Cable length
 - [Max] ≤ 1000 kg: 3 m
 - [Max] ≥ 2000 kg: 6 m

Accessories

- Load corner for CR 1000-3P1, CR 250-3P1, CR 500-3P1, steel, incl. pressure piece, SAUTER CE P244011
- Pressure piece for CR 1000-3P1, CR 250-3P1, CR 500-3P1, steel, SAUTER CE P244012
- Load corner for CR 2000-3P1, steel, stainless incl. pressure piece, SAUTER CE P244021
- Pressure piece for CR 2000-3P1, steel, stainless, SAUTER CE P244022

STANDARD	OPTION
 IP 68	 DAkkS
 4 DAYS	 +3 DAYS
	 ISO
	[Max] ≤ 500 kg / 5 kN

Model Nominal load

KERN

CR 60-3P1	60 kg/0,6 kN
CR 130-3P1	130 kg/1,3 kN
CR 250-3P1	250 kg/2,5 kN
CR 500-3P1	500 kg/5 kN
CR 1000-3P1	1000 kg/10 kN
CR 2000-3P1	2000 kg/20 kN




CR Y1
Load cell made from steel alloy

Technical data

- Accuracy in accordance with OIML R60 C1
- RoHS compliant
- High precision (comprehensive error 0,05 % F.S.)
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: for weight, tensile and compressive force measurement
- Suitable for weight measurement as well as force and force test stands
- Force transmission via pressure piece or threaded hole
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Pressure piece included with delivery
- Thread for pressure piece or other force application:
 - up to 5000 kg M16×1,5,
 - from 10000 kg M32×1,5

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

STANDARD	OPTION
 IP 68	 DAkkS
 1 DAY	 +3 DAYS
	 ISO
	[Max] ≤ 500 kg / 5 kN

Model Nominal load

KERN

CR 500-1Y1	0,5 t/5 kN
CR 1000-1Y1	1 t/10 kN
CR 5000-1Y1	5 t/50 kN
CR 10000-1Y1	10 t/100 kN
CR 20000-1Y1	20 t/200 kN



CB Q1 · CB Q2

Bending beam and shear beam load cell made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Note: Accuracy class OIML R60 C6 or EX version on request



STANDARD		OPTION	
[Max] ≤ 500 kg			

Model Nominal load

KERN	kg
CB 5-3Q1	5
CB 10-3Q1	10
CB 20-3Q1	20
CB 30-3Q1	30
CB 50-3Q1	50
CB 75-3Q1	75
CB 100-3Q1	100
CB 150-3Q1	150
CB 200-3Q1	200
CB 250-3Q1	250
CB 300-3Q1	300
CB 500-3Q1	500
CB 750-3Q2*	750
CB 1000-3Q2*	1000
CB 1500-3Q2*	1500

1 * ONLY WHILE STOCKS LAST

CB P1

Bending beams made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529), hermetically encapsulated
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, silo scales, bed scales and other types of scales
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length: 3 m



STANDARD		OPTION	

Model Nominal load

KERN	kg
CB 100-3P1	100
CB 250-3P1	250

Accessories CB Q1 · CB Q2

- Traction device, steel, galvanised, suitable for CB Q1, SAUTER CE Q30901
- Traction device, steel, stainless, suitable for CB Q2, SAUTER CE Q34905
- **1** Base plate, steel, galvanised, suitable for CB Q1, SAUTER CE Q30903
- Base plate, steel, stainless, suitable for CB Q1, SAUTER CE RQ30903
- Base plate, steel, stainless, suitable for CB Q2, SAUTER CE Q34903
- **1** Bearing, steel, stainless, suitable for CB Q1 5 – 50 kg, SAUTER CE Q30904 75 – 300 kg, SAUTER CE Q30905 CB 500-3Q1, SAUTER CE Q30906
- Bearing, steel, stainless, suitable for CB Q2, SAUTER CE Q34906
- Load corner, steel, stainless, suitable for CB Q1, SAUTER CE RQ30907
- Adjustable foot, steel, stainless, suitable for CB Q2, SAUTER CE Q34901

Accessories CB P1

- Adjustable foot, steel, nickel-plated, M12 thread, suitable for CB P1, SAUTER CE P2012
- **2** Load corner, steel, nickel-plated, suitable for CB P1, SAUTER CE P4022
- Distance plate for bending beams CB P1 made from steel, SAUTER CE P3012



CT Q1 Shear beam made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 5 m
- Note: EX version on request



STANDARD			OPTION	
			+3 DAYS	+4 DAYS
			[Max] ≤ 500 kg	

Model Nominal load

KERN	kg
CT 300-3Q1	300
CT 500-3Q1	500
CT 750-3Q1	750
CT 1000-3Q1	1000
CT 1500-3Q1	1500
CT 2000-3Q1	2000
CT 3000-3Q1	3000
CT 5000-3Q1	5000
CT 7500-3Q1	7500
CT 10000-3Q1	10000

CT P1 · CT P2 Shear beam made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length
[Max] ≤ 1000 kg: 4 m
[Max] ≥ 1500 kg: 6 m
- CT P2: Delivery with calibrated sensitivity, when ordering several cells



STANDARD			OPTION	
			+3 DAYS	+4 DAYS
			[Max] ≤ 500 kg	

Model Nominal load

KERN	kg
CT 500-3P1	500
CT 1000-3P1	1000
CT 1500-3P1	1500
CT 2500-3P1	2500
CT 3000-3P1	3000
CT 5000-3P1	5000
CT 10000-3P1	10000
CT 500-3P2	500
CT 1000-3P2	1000
CT 5000-3P2	5000
CT 3000-3P2	3000
CT 10000-3P2	10000

Accessories CT Q1

- Base plate, steel, stainless, suitable for CT Q1: SAUTER CE RQ35911
- CT 3000-3Q1, CT 5000-3Q1: SAUTER CE RQ35912
- CT 7500-3Q1, CT 10000-3Q1: SAUTER CE RQ35919
- Bearing, steel, stainless, suitable for CT Q1: SAUTER CE RQ35909
- CT 3000-3Q1, CT 5000-3Q1: SAUTER CE RQ35910
- CT 7500-3Q1, CT 10000-3Q1: SAUTER CE RQ35918
- Load corner, steel, stainless, suitable for CT Q1: SAUTER CE RQ35902
- Load corner, steel, stainless, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903

Accessories CT P1 · CT P2

- Load corner, steel, stainless, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210
- Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025
- Adjustable foot, steel, nickel-plated, M12 thread, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012
- Adjustable foot, steel, nickel-plated, M18 thread, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018
- Adjustable foot, steel, nickel-plated, M24 thread, suitable for CT 10000-3P1, SAUTER CE P2024
- Distance plate, suitable for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2, CT 1500-3P1: SAUTER CE P3012
- CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1, CT 5000-3P2: SAUTER CE P3015
- CT 10000-3P1, CT 10000-3P2: SAUTER CE P30110



CO Y1
Miniature cylindrical load cell
made from stainless steel

Technical data

- Accuracy in accordance with OIML G5
- High precision (comprehensive Error 0,5 % F.S.)
- RoHS compliant
- Protection against dust and water splashes IP65
- Area of application: Compressive applications
- Suitable for weight measurement as well as force and force test stands
- Nominal sensitivity: 1,0 – 1,5 mV/V, depending on nominal load
- Cable length: 2 m

CO Y2
Miniature cylindrical load cell
made from stainless steel

Technical data

- Accuracy in accordance with OIML G5
- High level of accuracy (Comprehensive error 0,5 % F. S.)
- RoHS compliant
- Protection against dust and water splashes IP65
- Area of application: Tensile and compressive applications
- Suitable for weight measurement as well as force and force test stands
- Nominal sensitivity: 1,5 – 2 mV/V, depending on nominal load
- Cable length: 2 m

CO Y5
Tension and compression force measuring cell made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 G1
- CE and RoHS compliant
- Protection against dust and water splashes IP66 (in accordance with EN 60529)
- Stainless steel
- Very low design
- Suitable for test stands, force gauges, automation systems, etc.
- 4-wire connection
- Nominal sensitivity:
CO 0.5-Y5, CO 1-Y5: 1 mV/V
CO 5-Y5, CO 10-Y5: 2 mV/V
- Cable length: 2 m

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

STANDARD OPTION

IP 65 1 DAY DAKkS ISO
+3 DAYS +4 DAYS

[Max] ≤ 500 kg / 5 kN

Model Nominal load

KERN

CO 10-Y1	10 kg / 100 N
CO 20-Y1	20 kg / 200 N
CO 50-Y1	50 kg / 500 N
CO 100-Y1	100 kg / 1 kN
CO 200-Y1	200 kg / 2 kN
CO 500-Y1	500 kg / 5 kN
CO 1000-Y1	1000 kg / 10 kN
CO 2000-Y1	2000 kg / 20 kN

STANDARD OPTION

IP 65 1 DAY DAKkS ISO
+3 DAYS +4 DAYS

[Max] ≤ 500 kg / 5 kN

Model Nominal load

KERN

CO 10-Y2	10 kg / 100 N
CO 20-Y2	20 kg / 200 N
CO 50-Y2	50 kg / 500 N
CO 100-Y2	100 kg / 1 kN
CO 200-Y2	200 kg / 2 kN
CO 500-Y2	500 kg / 5 kN
CO 1000-Y2	1000 kg / 10 kN
CO 2000-Y2	2000 kg / 20 kN

STANDARD OPTION

IP 66 1 DAY DAKkS ISO
+3 DAYS +4 DAYS

[Max] ≥ 1 kg / 10 N

Model Nominal load

KERN

CO 0.5-Y5	500 g / 5 N
CO 1-Y5	1 kg / 10 N
CO 5-Y5	5 kg / 50 N
CO 10-Y5	10 kg / 100 N



CJ P4



CJ P4PG



CJ X467



CJ X468

CJ P
Junction box for the connection of several measuring cells to an evaluation unit

Features

- Prepared for 4-wire and 6-wire measuring cells
- The robust aluminium diecast housing
- Protection against dust and water splashes IP65

CJ X
Junction box for the connection of several measuring cells to an evaluation unit

Features

- Prepared for 4-wire and 6-wire measuring cells
- CJ X467**
- Robust housing made of stainless steel with IP67 dust and spray protection
- CJ X468**
- The robust aluminium diecast housing, protection against dust and water splashes IP68

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

STANDARD

Model	Number of connection options
KERN	
CJ P2	2
CJ P4	4
CJ P4PG	4

STANDARD

Model	Number of connection options
KERN	
CJ X467	4
CJ X468	4