**KERN**®

# COUNTING SCALES, COUNTING SYSTEMS

Laboratory | Industry | Food Industry

PROFESSIONAL MEASURING

KERN

# 2025

# KERN Pictograms

**Internal adjusting**
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)
CAL INT

**Adjusting program CAL**
For quick setting up of the balance's accuracy. External adjusting weight required
CAL EXT

**EasyTouch**
Suitable for the connection, data transmission and control through PC or tablet
ET

**Memory**
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.
MEMORY

**Alibi memory**
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.
ALIBI

**KERN Universal Port (KUP)**
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort
KUP

**RS-232 Data interface**
To connect the balance to a printer, PC or network
RS 232

**RS-485 Data interface**
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible
RS 485

**USB Data interface**
To connect the balance to a printer, PC or other peripherals
USB

**Bluetooth\* Data interface**
To transfer data from the balance to a printer, PC or other peripherals
BT

**WIFI Data interface**
To transfer data from the balance to a printer, PC or other peripherals
WIFI

**Control outputs**
(optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.
SWITCH

**Analogue interface**
to connect a suitable peripheral device for analogue processing of the measurements
ANALOG

**Interface for second balance**
For direct connection of a second balance
DUAL

**Network interface**
For connecting the scale to an Ethernet network
LAN

**KERN Communication Protocol (KCP)**
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems
KCP PROTOCOL

**GLP/ISO log intern**
The balance displays weight, date and time, independent of a printer connection
GLP INTERN

**GLP/ISO log Printer**
With weight, date and time. Only with KERN printers.
GLP PRINTER

**Piece counting**
Reference quantities selectable.
Display can be switched from piece to weight
PCS

**Recipe level A**
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out
RECIPE A

**Recipe level B**
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
RECIPE B

**Totalising level A**
The weights of similar items can be added together and the total can be printed out
SUM A

**Percentage determination**
Determining the deviation in % from the target value (100 %)
PERCENT

**Weighing units**
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details
UNIT

**Weighing with tolerance range (Checkweighing)**
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model
TOL

**Hold function**
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value
MOVE

**Protection against dust and water splashes IPxx**
The type of protection is shown in the pictogram
IP

**Suspended weighing**
Load support with hook on the underside of the balance
UNDER

**Battery operation**
Ready for battery operation. The battery type is specified for each device
BATT

**Rechargeable battery pack**
Rechargeable set
ACCU

**Universal plug-in power supply**
with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, US
C) EU, CH, GB, US, AUS
MULTI

**Plug-in power supply**
230V/50Hz in standard version for EU, CH.
On request GB, USA or AUS version available
230 V

**Integrated power supply unit**
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
230 V

**Weighing principle Strain gauges**
Electrical resistor on an elastic deforming body
DMS

**Weighing principle Tuning fork**
A resonating body is electromagnetically excited, causing it to oscillate
T-FORK

**Weighing principle Electromagnetic force compensation**
Coil inside a permanent magnet. For the most accurate weighings
FORCE

**Weighing principle Single cell technology**
Advanced version of the force compensation principle with the highest level of precision
SC TECH

**Conformity Assessment**
The time required for conformity assessment is specified in the pictogram
M +3 DAYS

**DAkkS calibration possible (DKD)**
The time required for DAkkS calibration is shown in days in the pictogram
DAkkS +3 DAYS

**Factory calibration (ISO)**
The time required for Factory calibration is shown in days in the pictogram
ISO +4 DAYS

**Package shipment**
The time required for internal shipping preparations is shown in days in the pictogram
1 DAY

**Pallet shipment**
The time required for internal shipping preparations is shown in days in the pictogram
2 DAYS

# KERN Models A‑Z

## KERN Quick-Finder

**How I quickly find the product I am looking for**

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

**And it's as simple as that – find the product you want in 2 steps:**
1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder

# Robust counting scale with large article memory, convenient operating philosophy and checkweighing display, counting resolution up to 30,000 points

## Features

- Innovative counting with tolerance range (Checkweighing): The counting process can be supported visually and/or audibly and this therefore makes portion division, dispensing and grading easier
  - visual signal: the colour of the display changes depending on the counting result (not enough/ ok/too much)
  - audible signal: the frequency of the audible signal changes depending on the counting result (not enough/ok/too much)
- Ideal for workshops for people with disabilities, particularly loud or quiet environments, where operators change frequently, etc.
- Three displays for weight display, reference weight, total pieces
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight

- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 20 direct price keys for frequently recurring reference weights and PRE-Tare values
- Memory for 50 reference weights and PRE-Tare values
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Changes from counting mode to weighing mode at the touch of a key
- Energy management: Backlight turns off after 5 sec, can be switched off
- Protective working cover included with delivery

## Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 315×215 mm
- Overall dimensions W×D×H 350×330×120 mm
- Rechargeable battery pack integrated, as standard, operating time up to 160 h without backlight, charging time approx. 14 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

## Accessories

- Protective working cover, scope of delivery 5 items, KERN RIB-A01S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 160 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 42,–**

**9**

STANDARD | OPTION

| CAL EXT | MEMORY | PCS | SUM | TOL | ACCU | MULTI | DMS | 1 DAY | DAkkS +3 DAYS |

| Model | Weighing capacity | Readability | Smallest part weight (Normal) | Counting resolution | Price excl. of VAT ex works | Options DAkkS Calibr. Certificate | |
|---|---|---|---|---|---|---|---|
| KERN | [Max] kg | [d] g | g/piece | Points | € | DAkkS KERN | € |
| CIB 3K-4 | 3 | 0,2 | 1 | 30.000 | **265,–** | 963-127 | 103,– |
| CIB 6K-4 | 6 | 0,5 | 2 | 30.000 | **265,–** | 963-128 | 124,– |
| CIB 10K-3 | 15 | 1 | 5 | 30.000 | **265,–** | 963-128 | 124,– |
| CIB 30K-3 | 30 | 2 | 10 | 30.000 | **265,–** | 963-128 | 124,– |

# Entry level model into professional counting, counting resolution of 30,000 points, verification optional

**9**

## Features

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- 10 memories for reference weights
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Integrated ESD protection, which makes it ideal for weighing small plastic parts

- Energy management: Backlight turns off after 5 sec
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

## Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 300×225 mm
- Overall dimensions W×D×H 300×330×110 mm
- Rechargeable battery pack integrated, as standard, operating time up to 200 h without backlight, charging time approx. 8 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

## Accessories

- Protective working cover, scope of delivery 5 items, KERN CXB-A01S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04, **€ 42,–**

Note: Official verification is mandatory for commercial trade

STANDARD | OPTION | FACTORY

CAL EXT | MEMORY | PCS | SUM | ACCU | 230 V | DMS | 1 DAY | DAkkS +3 DAYS | M +3 DAYS CXB-NM

| Model KERN | Weighing capacity [Max] kg | Readability [d] g | Verification value [e] g | Minimal load [Min] g | Smallest part weight (Normal) g/piece | Counting resolution Points | Price excl. of VAT ex works € | Options | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Verification | | DAkkS Calibr. Certificate | |
| | | | | | | | | KERN | € | DAkkS KERN | € |
| CXB 3K0.2 | 3 | 0,2 | - | - | 1 | 30.000 | **350,–** | - | - | 963-127 | 103,– |
| CXB 6K0.5 | 6 | 0,5 | - | - | 2 | 30.000 | **350,–** | - | - | 963-128 | 124,– |
| CXB 15K1 | 15 | 1 | - | - | 5 | 30.000 | **355,–** | - | - | 963-128 | 124,– |
| CXB 30K2 | 30 | 2 | - | - | 10 | 30.000 | **350,–** | - | - | 963-128 | 124,– |

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

| Model KERN | Weighing capacity [Max] kg | Readability [d] g | Verification value [e] g | Minimal load [Min] g | Smallest part weight (Normal) g/piece | Counting resolution Points | Price excl. of VAT ex works € | Verification KERN | € | DAkkS KERN | € |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CXB 3K1NM | 3 | 1 | 1 | 20 | 1 | 30.000 | **380,–** | 965-227 | 65,– | 963-127 | 103,– |
| CXB 6K2NM | 6 | 2 | 2 | 40 | 2 | 30.000 | **380,–** | 965-228 | 84,– | 963-128 | 124,– |
| CXB 15K5NM | 15 | 5 | 5 | 100 | 5 | 30.000 | **380,–** | 965-228 | 84,– | 963-128 | 124,– |
| CXB 30K10NM | 30 | 10 | 10 | 200 | 10 | 30.000 | **380,–** | 965-228 | 84,– | 963-128 | 124,– |

# Professional model, counting resolution 60,000 points, verification optional

## Features

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target value is reached, this will be indicated by an audible signal
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

## Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface, stainless steel, W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C
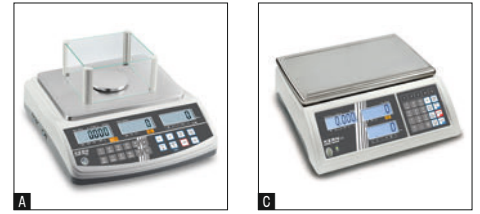
## Accessories

- Protective working cover, scope of delivery 5 items, KERN CFS-A02S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 42,–**
- 1 Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,–**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,–**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Note: Official verification is mandatory for commercial trade

**9**

STANDARD | OPTION | FACTORY

CAL EXT | MEMORY | RS 232 | KCP PROTOCOL | PCS | SUM | TOL | MULTI | DMS | 1 DAY | ACCU | DAkkS +3 DAYS | M +3 DAYS CPB-DM

| Model KERN | Weighing capacity [Max] kg | Readability [d] g | Verification value [e] g | Minimal load [Min] g | Smallest part weight (Normal) g/piece | Counting resolution Points | Price excl. of VAT ex works € | Options | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Verification | | DAkkS Calibr. Certificate | |
| | | | | | | | | M KERN | € | DAkkS KERN | € |
| CPB 6K0.1N | 6 | 0,1 | - | - | 1 | 60.000 | **290,–** | - | - | 963-128 | 124,– |
| CPB 15K0.2N | 15 | 0,2 | - | - | 2,5 | 60.000 | **290,–** | - | - | 963-128 | 124,– |
| CPB 30K0.5N | 30 | 0,5 | - | - | 5 | 60.000 | **290,–** | - | - | 963-128 | 124,– |
| Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d]. | | | | | | | | | | | |
| CPB 6K1DM | 3 \| 6 | 1 \| 2 | 1 \| 2 | 20 | 1 | 60.000 | **290,–** | 965-228 | 84,– | 963-128 | 124,– |
| CPB 15K2DM | 6 \| 15 | 2 \| 5 | 2 \| 5 | 40 | 2,5 | 60.000 | **290,–** | 965-228 | 84,– | 963-128 | 124,– |
| CPB 30K5DM | 15 \| 30 | 5 \| 10 | 5 \| 10 | 100 | 5 | 60.000 | **290,–** | 965-228 | 84,– | 963-128 | 124,– |

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

## Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

### Features

- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display, reference weight, total pieces
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Fill-to-target function: Programmable target quantity or target weight e.g. for checkweighing. A signal will be displayed when the target value is reached
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- Second balance interface to construct a high-resolution counting system, standard, e.g. with weighing bridges of KERN KFP V20
- Draught shield standard for models with weighing plate size A, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery, for models with weighing plate size A, B

### Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface
  - A Ø 80 mm
  - B W×D 295×225 mm, see larger picture
  - C W×D 370×240 mm
- Overall dimensions W×D×H
  - A 315×350×110 mm/315×350×185 mm (incl. draught shield)
  - B 315×350×100 mm
  - C 370×360×100 mm
- Permissible ambient temperature 0 °C/40 °C

### Accessories

- A, B: Protective working cover, scope of delivery 5 items, KERN CFS-A02S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 42,–**
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,–**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,–**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD / OPTION

CAL EXT | MEMORY | RS 232 | DUAL | KCP PROTOCOL | GLP PRINTER | PCS | SUM | TOL | MULTI | DMS | 1 DAY | ACCU | DAkkS +3 DAYS

| Model KERN | Weighing capacity [Max] kg | Readability [d] g | Smallest part weight (Normal) g/piece | Counting resolution Points | Net weight approx. kg | Weighing plate | Price excl. of VAT ex works € | Options DAkkS Calibr. Certificate DAkkS KERN | € |
|---|---|---|---|---|---|---|---|---|---|
| CFS 300-3 | 0,3 | 0,001 | 0,05 | 60.000 | 2,6 | A | 510,– | 963-127 | 103,– |
| CFS 3K-5 | 3 | 0,01 | 0,5 | 60.000 | 3,4 | B | 395,– | 963-127 | 103,– |
| CFS 6K0.1 | 6 | 0,1 | 1 | 60.000 | 3,2 | B | 340,– | 963-128 | 124,– |
| CFS 15K0.2 | 15 | 0,2 | 2 | 75.000 | 3,4 | B | 340,– | 963-128 | 124,– |
| CFS 30K0.5 | 30 | 0,5 | 5 | 60.000 | 3,4 | B | 340,– | 963-128 | 124,– |
| CFS 50K-3 | 50 | 1 | 10 | 50.000 | 4,4 | C | 395,– | 963-128 | 124,– |

NEXT LEVEL
Easy Touch
FUNCTIONS

IoT ready


A


B

## Technical data

- Large backlit LCD display, digit height 25 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Dimensions weighing surface
  **A** ⌀ 82 mm, plastic
  **B** W×D 130×130 mm, plastic, see larger picture
  **C** W×D 340×240 mm, stainless steel
- Overall dimensions W×D×H
  **A** 163×245×65 mm/163×245×123 mm (incl. draught shield)
  **B** 163×245×65 mm
  **C** 350×390×120 mm
- Permissible ambient temperature -10 °C/40 °C

## Accessories

- **A**, **B** Protective working cover, scope of delivery 5 items, KERN YBA-A12S05, **€ 52,–**
- **C** Protective working cover, scope of delivery 5 items, KERN FKB-A02S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,–**
- External data interface RS-232, interface cable included, KERN KUP-01, **€ 60,–**
- External data interface USB, interface cable included, KERN KUP-03, **€ 75,–**
- WiFi interface adapter, KERN KUP-05, **€ 75,–**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,–**
- Further details, plenty of further accessories and suitable printers see *Accessories*
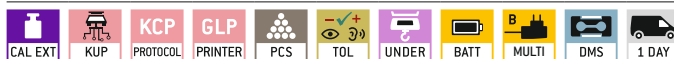
## Easy to use, self-explanatory counting scale with laboratory accuracy, ideal for the various possibilities of Industry 4.0 applications, counting resolution up to 360.000 points
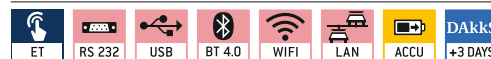
### Features

- Self-explanatory, graphic control panel
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  **1** Place the empty container onto the weighing plate and tare by pressing the TARE key
  **2** Place the reference quantity for the goods to be counted into the container (5, 10, 20 or any number of pieces)
  **3** Confirm the selected reference quantity by pressing the key (5, 10, 20 or any number of pieces)
  **4** Pour in the goods to be counted. The number of pieces will immediately be shown in the display

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Changes from counting mode to weighing mode at the touch of a key
- Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space ⌀×H 90×40 mm
- Protective working cover included with delivery

STANDARD

| CAL EXT | KUP | KCP PROTOCOL | GLP PRINTER | PCS | TOL | UNDER | BATT | MULTI | DMS | 1 DAY |

OPTION

| ET | RS 232 | USB | BT 4.0 | WIFI | LAN | ACCU | DAkkS +3 DAYS |

| Model | Weighing capacity [Max] | Readability [d] | Smallest part weight (Normal) | Counting resolution | Net weight approx. | Weighing plate | Price excl. of VAT ex works | Options DAkkS Calibr. Certificate | |
|---|---|---|---|---|---|---|---|---|---|
| KERN | kg | g | g/piece | Points | kg | | € | DAkkS KERN | € |
| CKE 360-3 | 0,36 | 0,001 | 0,02 | 180.000 | 0,85 | A | 395,– | 963-127 | 103,– |
| CKE 3600-2 | 3,6 | 0,01 | 0,2 | 180.000 | 1,6 | B | 425,– | 963-127 | 103,– |
| CKE 6K0.02 | 6 | 0,02 | 0,2 | 300.000 | 7 | C | 550,– | 963-128 | 124,– |
| CKE 8K0.05 | 8 | 0,05 | 0,5 | 160.000 | 7 | C | 520,– | 963-128 | 124,– |
| CKE 16K0.05 | 16 | 0,05 | 0,5 | 320.000 | 7 | C | 610,– | 963-128 | 124,– |
| CKE 16K0.1 | 16 | 0,1 | 1 | 160.000 | 7 | C | 530,– | 963-128 | 124,– |
| CKE 36K0.1 | 36 | 0,1 | 1 | 360.000 | 7 | C | 570,– | 963-128 | 124,– |
| CKE 65K0.2 | 65 | 0,2 | 2 | 325.000 | 7 | C | 560,– | 963-129 | 153,– |

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- Dimensions of display device W×D×H 260×150×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN KFB-A02S05, **€ 52,–**
- Stand to elevate display device
  **1** **A** - **E** Height of stand approx. 330 mm, KERN IFB-A01, **€ 68,–**
  **D**, **E** Height of stand approx. 600 mm, KERN IFB-A02, **€ 81,–**
- Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 40,–**
- **2** ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,–**
- Further details, plenty of further accessories and suitable printers see *Accessories*

## Industrial counting scale with convenient decimal keypad and high counting resolution, verification optional

### Features

- Display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display (verifiable), reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- The manual reference weight optimisation gradually improves the average value of the piece weight

- Totalising of pieces when counting
- Printout with date and time
- Protective working cover over the display device included with the delivery
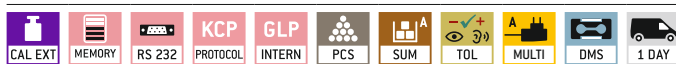
### Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Weighing platform dimensions W×D×H, stainless steel
  **A** 230×230×110 mm  **B** 300×240×110 mm
  **C** 400×300×120 mm  **D** 500×400×120 mm
  **E** 650×500×140 mm

STANDARD | OPTION | FACTORY

CAL EXT | MEMORY | RS 232 | KCP PROTOCOL | GLP INTERN | PCS | SUM | TOL | MULTI | DMS | 1 DAY | DAkkS +3 DAYS | ACCU | M +3 DAYS IFS-M

| Model KERN | Weighing capacity [Max] kg | Readability [d] g | Verification value [e] g | Minimal load [Min] g | Smallest part weight (Normal) g/piece | Net weight approx. kg | Weighing plate | Price excl. of VAT ex works € | Options Verification M KERN | € | Options DAkkS Calibr. Certificate DAkkS KERN | € |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d]. (Remaining stock contains multi-range scales) ||||||||||||
| IFS 6K-4S | 3 \| 6 | 0,1 \| 0,2 | - | - | 1 | 3,8 | A | 500,– | - | - | 963-128 | 124,– |
| IFS 10K-4 | 6 \| 15 | 0,1 \| 0,2 | - | - | 2 | 6 | B | 550,– | - | - | 963-128 | 124,– |
| IFS 30K0.2DL | 12 \| 30 | 0,2 \| 0,5 | - | - | 5 | 7 | C | 610,– | - | - | 963-128 | 124,– |
| IFS 60K0.5D | 30 \| 60 | 0,5 \| 1 | - | - | 10 | 7 | C | 610,– | - | - | 963-129 | 153,– |
| IFS 60K0.5DL | 30 \| 60 | 0,5 \| 1 | - | - | 10 | 12 | D | 780,– | - | - | 963-129 | 153,– |
| IFS 100K-3 | 75 \| 150 | 1 \| 2 | - | - | 25 | 12 | D | 860,– | - | - | 963-129 | 153,– |
| IFS 100K-3L | 75 \| 150 | 1 \| 2 | - | - | 25 | 20 | E | 1100,– | - | - | 963-129 | 153,– |
| IFS 300K-3 | 150 \| 300 | 2 \| 5 | - | - | 50 | 22 | E | 1100,– | - | - | 963-129 | 153,– |
| Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification. ||||||||||||
| IFS 6K-3SM | 3 \| 6 | 1 \| 2 | 1 \| 2 | 20 \| 40 | 1 | 3,8 | A | 480,– | 965-228 | 84,– | 963-128 | 124,– |
| IFS 6K-3M | 3 \| 6 | 1 \| 2 | 1 \| 2 | 20 \| 40 | 1 | 5,0 | B | 475,– | 965-228 | 84,– | 963-128 | 124,– |
| IFS 10K-3M | 6 \| 15 | 2 \| 5 | 2 \| 5 | 40 \| 100 | 2 | 4,8 | B | 475,– | 965-228 | 84,– | 963-128 | 124,– |
| IFS 10K-3LM | 6 \| 15 | 2 \| 5 | 2 \| 5 | 40 \| 100 | 2 | 7 | C | 560,– | 965-228 | 84,– | 963-128 | 124,– |
| IFS 30K-3M | 15 \| 30 | 5 \| 10 | 5 \| 10 | 100 \| 200 | 5 | 7 | C | 560,– | 965-228 | 84,– | 963-128 | 124,– |
| IFS 60K-2M | 30 \| 60 | 10 \| 20 | 10 \| 20 | 200 \| 400 | 10 | 7 | C | 570,– | 965-229 | 110,– | 963-129 | 153,– |
| IFS 60K-2LM | 30 \| 60 | 10 \| 20 | 10 \| 20 | 200 \| 400 | 10 | 13 | D | 710,– | 965-229 | 110,– | 963-129 | 153,– |
| IFS 100K-2M | 60 \| 150 | 20 \| 50 | 20 \| 50 | 400 \| 1000 | 25 | 12 | D | 710,– | 965-229 | 110,– | 963-129 | 153,– |
| IFS 100K-2LM | 60 \| 150 | 20 \| 50 | 20 \| 50 | 400 \| 1000 | 25 | 22 | E | 960,– | 965-229 | 110,– | 963-129 | 153,– |

NEXT LEVEL
Easy Touch
FUNCTIONS

IoT ready ✓

## Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points, ideal for the diverse possibilities of Industry 4.0 applications

### Features

- Self-explanatory, graphic control panel
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  **1** Place the empty container onto the weighing plate and tare by pressing the TARE key
  **2** Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
  **3** Confirm the selected reference quantity by pressing the key (5, 10 or 20)
  **4** Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Standardised, simplified concept of operation
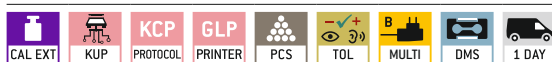- Protective working cover over the display device included with the delivery

### Technical data

- Backlit LCD display, digit height 21 mm
- Weighing platform dimensions, stainless steel
  **A** W×D×H 230×230×103 mm
  **B** W×D×H 308×318×75 mm, see larger picture
  **C** W×D×H 500×400×125 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN DE-A12S05, **€ 44,–**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,–**
- Suitable for models with weighing plate size **B**: Mount to fasten the display device to the platform, KERN DE-A11N, **€ 40,–**
- **5** Stand to elevate display device **B**: Height of stand approx. 480 mm, KERN DE-A10, **€ 128,–**
  **C**: Height of stand approx. 600 mm, KERN DS-A03, **€ 140,–**
- **6** Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate **B**, KERN DS-A01, **€ 230,–**
- External data interface RS-232, interface cable included, KERN KUP-01, **€ 60,–**
- External data interface USB, interface cable included, KERN KUP-03, **€ 75,–**
- Ethernet interface adapter, KERN KUP-04, **€ 115,–**
- WiFi interface adapter, KERN KUP-05, **€ 75,–**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,–**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,–**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**STANDARD**

| CAL EXT | KUP | KCP PROTOCOL | GLP PRINTER | PCS | TOL | B MULTI | DMS | 1 DAY |
|---|---|---|---|---|---|---|---|---|

**OPTION**

| ET | RS 232 | USB | BT 4.0 | WIFI | LAN | UNDER | ACCU | DAkkS +3 DAYS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | B | | |

| Model KERN | Weighing capacity [Max] kg | Readability [d] g | Smallest part weight (Normal) g/piece | Counting resolution Points | Net weight approx. kg | Cable length approx. m | Weighing plate | Price excl. of VAT ex works € | DAkkS Calibr. Certificate DAkkS KERN | € |
|---|---|---|---|---|---|---|---|---|---|---|
| CDS 4K0.02 | 4 | 0,02 | 0,2 | 200.000 | 8 | 2,5 | A | 690,– | 963-127 | 103,– |
| CDS 15K0.05 | 15 | 0,05 | 0,5 | 300.000 | 8 | 2,5 | B | 640,– | 963-128 | 124,– |
| CDS 16K0.1 | 16 | 0,1 | 1 | 160.000 | 8 | 2,5 | B | 630,– | 963-128 | 124,– |
| CDS 30K0.1 | 30 | 0,1 | 1 | 300.000 | 8 | 2,5 | B | 670,– | 963-128 | 124,– |
| CDS 30K0.1L | 30 | 0,1 | 1 | 300.000 | 19 | 2,5 | C | 1150,– | 963-128 | 124,– |
| CDS 36K0.2L | 36 | 0,2 | 2 | 180.000 | 19 | 2,5 | C | 1150,– | 963-128 | 124,– |
| CDS 60K0.2 | 60 | 0,2 | 2 | 300.000 | 19 | 2,5 | C | 1150,– | 963-129 | 153,– |

**PREMIUM**
★★★

# High-resolution counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999, verification optional

## Features

- The highly accurate KERN CCA counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- Thanks to optional verification, it is also suitable for use in verified applications
- The balances are connected to one another with an RS-232 Y-cable, which also allows you to connect a printer

## Reference scale KERN EWJ

- This precision balance, which can be used as an individual balance, also fulfils the highest demands through connection with a high-capacity platform
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Draught shield standard for models with [Max] = 600 g, weighing space W×D×H 134×128×80 mm
- Protective working cover included with delivery

## Quantity scale KERN IFS

- The high-accuracy quantity counting takes place on the weighing platform IFS. In this way even the smallest of parts can be counted in large volumes
- Tough industry standard suitable for use in harsh industrial applications
- Display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- The manual reference weight optimisation gradually improves the average value of the piece weight
- Totalising of pieces when counting
- Printout with date and time
- Aluminium singlepoint load cell (1×3000 e), protection against dust and water splashes IP65
- Protective working cover over the display device included with the delivery

# Counting System KERN CCA





## Technical data

### Reference scale KERN EWJ
- Dimensions weighing surface, stainless steel
  [Max] 600 g: ∅ 120 mm
  **1** [Max] 6000 g: W×D 155×145 mm
- Overall dimensions W×D×H
  [Max] 600 g: 220×340×180 mm (incl. draught shield)
  [Max] 6000 g: 220×340×105 mm
- Net weight
  [Max] 600 g: approx. 3,2 kg
  [Max] 6000 g: approx. 3,4 kg

### Quantity scale KERN IFS
- Weighing platform dimensions, stainless steel
  **A** W×D×H 300×240×105 mm
  **B** W×D×H 400×300×114 mm
  **C** W×D×H 500×400×140 mm
- Cable length of display device approx. 3 m

### Counting System KERN CCA
- Connection cable approx. 1,5 m
- Net weight
  **A** approx. 9 kg
  **B** approx. 14 kg
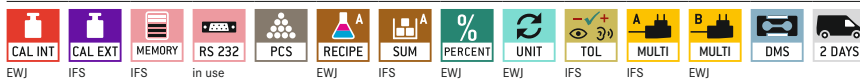  **C** approx. 16 kg

## Accessories

### Reference scale KERN EWJ
- Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 57 h without backlight, charging time approx. 6,5 h, KERN KFB-A01, **€ 40,–**

### Quantity scale KERN IFS
- Protective working cover over the display device, scope of delivery 5 items, KERN KFB-A02S05, **€ 52,–**
- Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, KERN KFB-A01, **€ 40,–**
- **2** Stand to elevate display device
  Height of stand approx. 330 mm, KERN IFB-A01, **€ 68,–**
  For models with weighing plate size **A**, **B**:
  Height of stand approx. 600 mm, KERN IFB-A02, **€ 81,–**
- **3** ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,–**
- Further details, plenty of further accessories and suitable printers see Accessories

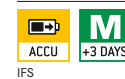Note: Official verification is mandatory for commercial trade

**9**

| STANDARD | | | | | | | | | | | | OPTION | | FACTORY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAL INT | CAL EXT | MEMORY | RS 232 | PCS | RECIPE | SUM | PERCENT | UNIT | TOL | MULTI | MULTI | DMS | 2 DAYS | ACCU | +3 DAYS | ACCU | +3 DAYS |
| EWJ | IFS | IFS | in use | | EWJ | IFS | EWJ | EWJ | IFS | IFS | EWJ | | | EWJ | | IFS |

| Model | Quantity scale | | Weighing plate | Reference scale | | Smallest part weight (Normal) g/piece | Price excl. of VAT ex works € | Options | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weighing range [Max] kg | Readability [d] g | | Weighing range [Max] g | Readability [d] g | | | Verification | | DAkkS Calibr. Certificate | |
| **KERN** | | | | | | | | M KERN | € | DAkkS KERN | € |
| CCA 6K-5M | 3 \| 6 | 1 \| 2 | A | 600 | 0,01 | 0,2 | **1040,–** | 965-228-216 | 145,– | 962-128-127 | 225,– |
| CCA 6K-4M | 3 \| 6 | 1 \| 2 | A | 6000 | 0,1 | 1 | **1000,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |
| CCA 10K-5M | 6 \| 15 | 2 \| 5 | A | 600 | 0,01 | 0,2 | **1040,–** | 965-228-216 | 145,– | 962-128-127 | 225,– |
| CCA 10K-4M | 6 \| 15 | 2 \| 5 | A | 6000 | 0,1 | 1 | **1000,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |
| CCA 30K-5M | 15 \| 30 | 5 \| 10 | B | 600 | 0,01 | 0,2 | **1140,–** | 965-228-216 | 145,– | 962-128-127 | 225,– |
| CCA 30K-4M | 15 \| 30 | 5 \| 10 | B | 6000 | 0,1 | 1 | **1100,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |
| CCA 60K-5M | 30 \| 60 | 10 \| 20 | B | 600 | 0,01 | 0,2 | **1150,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |
| CCA 60K-4M | 30 \| 60 | 10 \| 20 | B | 6000 | 0,1 | 1 | **1100,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |
| CCA 100K-5M | 60 \| 150 | 20 \| 50 | C | 600 | 0,01 | 0,2 | **1300,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |
| CCA 100K-4M | 60 \| 150 | 20 \| 50 | C | 6000 | 0,1 | 1 | **1250,–** | 965-229-216 | 190,– | 962-129-127 | 245,– |

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

**9**

# Counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999

## Features

- The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price

### Reference scale KERN CFS

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a high-capacity weighing bridge
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display, reference weight, total pieces
- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Draught shield standard for models with [d] = 0,001 g, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery

### Quantity scale
### KERN KFP/KERN KFU/KERN KIP

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge). In this way even the smallest of parts can be counted in large volumes

### Platform KERN KFP-V20 IP65

- Weighing plate stainless steel, painted steel base
- Aluminium singlepoint load cell, protection against dust and water splashes IP65
- Models with weighing plate size A – E

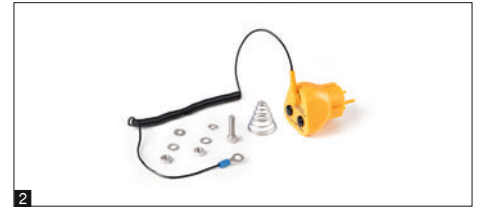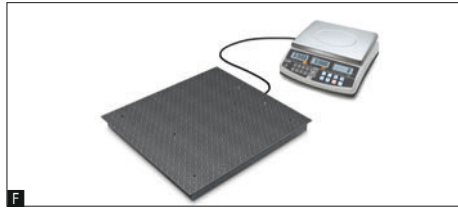### Weighing bridge KERN KIP-V20M IP67

- Lacquered steel weighing bridge, corrugated steel plate. Extremely resistant to bending due to material thickness
- 4 load cells, alloy steel, silicone-coated, IP67
- Models with weighing plate size F, G, H

### Weighing bridge KERN KFP-V20 IP67

- Weighing bridge painted steel, weighing plate screwed on from the top
- 4 load cells, alloy steel, silicone-coated, IP67
- Models with weighing plate size I

### U-shaped weighing bridge KERN KFU-V20

- Load range: painted steel
- 4 load cells, alloy steel, silicone-coated, IP67
- Models with weighing plate size J

# Counting System KERN CCS

## Technical data

### Reference scale KERN CFS

- Dimensions weighing surface, stainless steel
  - **1** [d] = 0,001 g: Ø 80 mm
  - [d] ≥ 0,01 g: W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- Net weight
  - **1** [d] = 0,001 g: approx. 2,6 kg
  - [d] ≥ 0,01 g: approx. 3,4 kg

### Quantity platforms, KERN KFP-V20 IP65

- Weighing platform dimensions, stainless steel
  - **A** W×D×H 230×230×103 mm
  - **B** W×D×H 300×240×105 mm
  - **C** W×D×H 400×300×114 mm
  - **D** W×D×H 500×400×124 mm
  - **E** W×D×H 650×500×136 mm

### Quantity platforms, KERN KIP-V20M

- Weighing platform dimensions, coated metal
  - **F** W×D×H 1000×1000×108 mm
  - **G** W×D×H 1200×1500×108 mm
  - **H** W×D×H 1500×1500×108 mm

### Bulk weighing bridges, KERN KFP-V20 IP67

- Weighing platform dimensions, coated metal
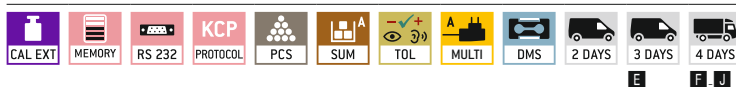  - **I** W×D×H 1500×1250×80 mm

### Bulk pallet load handling, KERN KFU-V20

- Weighing platform dimensions, coated metal
  - **J** W×D×H 840×1190×90 mm

- Connection cable approx.
  - **A** - **E** 3 m
  - **F** - **J** 5 m

## Accessories

- Protective working cover, scope of delivery 5 items, KERN CFS-A02S05, **€ 52,–**
- **2** Suitable for models with weighing plate size **A**-**E**: ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,–**
- Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 42,–**
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,–**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,–**
- Further details, plenty of further accessories and suitable printers see *Accessories*

**9**

STANDARD | OPTION

CAL EXT | MEMORY | RS 232 | KCP PROTOCOL | PCS | SUM | TOL | MULTI | DMS | 2 DAYS | 3 DAYS **E** | 4 DAYS **F** **J** | ACCU | DAkkS +3 DAYS

| Model | Quantity scale | | Weighing plate | Reference scale | | Counting resolution | Smallest part weight (Normal) | Price excl. of VAT ex works | Options DAkkS Calibr. Certificate | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Weighing range [Max] | Readability [d] | | Weighing range [Max] | Readability [d] | | | | DAkkS | |
| KERN | kg | g | | g | g | Points | g/piece | € | KERN | € |
| CCS 6K-6 | 6 | 0,2 | **A** | 300 | 0,001 | 1.200.000 | 0,05 | **660,–** | 962-128-127 | 225,– |
| CCS 10K-6 | 15 | 0,5 | **B** | 300 | 0,001 | 3.000.000 | 0,05 | **740,–** | 962-128-127 | 225,– |
| CCS 30K0.01. | 30 | 1 | **C** | 3000 | 0,01 | 600.000 | 0,5 | **730,–** | 962-128-127 | 225,– |
| CCS 30K0.1. | 30 | 1 | **C** | 6000 | 0,1 | 300.000 | 1 | **670,–** | 962-128-128 | 240,– |
| CCS 60K0.01. | 60 | 2 | **C** | 3000 | 0,01 | 1.200.000 | 0,5 | **720,–** | 962-129-127 | 245,– |
| CCS 60K0.01L. | 60 | 2 | **D** | 3000 | 0,01 | 1.200.000 | 0,5 | **770,–** | 962-129-127 | 245,– |
| CCS 60K0.1. | 60 | 2 | **C** | 6000 | 0,1 | 600.000 | 1 | **730,–** | 962-129-128 | 275,– |
| CCS 60K0.1L. | 60 | 2 | **D** | 6000 | 0,1 | 600.000 | 1 | **820,–** | 962-129-128 | 275,– |
| CCS 150K0.01 | 150 | 5 | **D** | 3000 | 0,01 | 3.000.000 | 0,5 | **850,–** | 962-129-127 | 245,– |
| CCS 150K0.01L | 150 | 5 | **E** | 3000 | 0,01 | 3.000.000 | 0,5 | **1080,–** | 962-129-127 | 245,– |
| CCS 150K0.1. | 150 | 5 | **D** | 6000 | 0,1 | 1.500.000 | 1 | **760,–** | 962-129-128 | 275,– |
| CCS 150K0.1L | 150 | 5 | **E** | 6000 | 0,1 | 1.500.000 | 1 | **1095,–** | 962-129-128 | 275,– |
| CCS 300K0.1* | 300 | 10 | **E** | 6000 | 0,1 | 3.000.000 | 1 | **1110,–** | 962-129-128 | 275,– |
| CCS 300K0.01* | 300 | 10 | **E** | 3000 | 0,01 | 6.000.000 | 0,5 | **1170,–** | 962-129-127 | 245,– |
| CCS 600K-1S* | 600 | 200 | **F** | 6000 | 0,1 | 6.000.000 | 1 | **1840,–** | 962-130-127 | 320,– |
| CCS 1T-4S* | 1500 | 500 | **F** | 6000 | 0,1 | 15.000.000 | 1 | **1740,–** | 962-130-128 | 335,– |
| CCS 1T-4* | 1500 | 500 | **G** | 6000 | 0,1 | 15.000.000 | 1 | **2200,–** | 962-130-128 | 335,– |
| CCS 1T-1L* | 1500 | 500 | **H** | 6000 | 0,1 | 15.000.000 | 1 | **2750,–** | 962-130-128 | 335,– |
| CCS 1T-1U* | 1500 | 500 | **J** | 6000 | 0,1 | 15.000.000 | 1 | **1790,–** | 962-130-128 | 335,– |
| CCS 3T-3L* | 3000 | 1000 | **I** | 6000 | 0,1 | 30.000.000 | 1 | **2540,–** | 962-132-128 | 680,– |

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