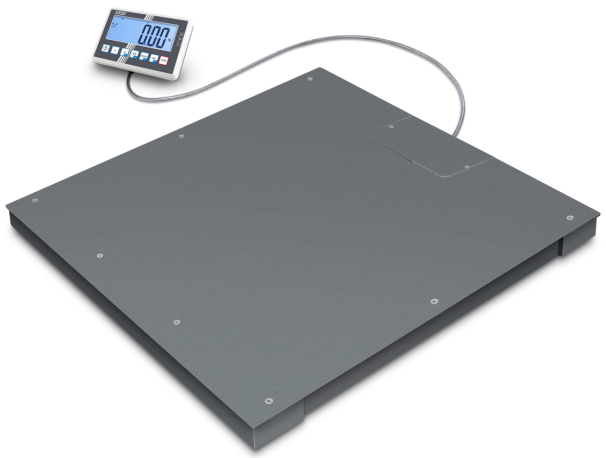
# KERN **BFC 1T-5DS**

High resolution floor scale with screwed-on weighing plate (IP67)



**Date of creation: 04.10.2026**

## Category

| | |
|---|---|
| Brand | KERN |
| Product category | Industrial scale |
| Product group | Floor scale |
| Product family | BFC |

## Measuring System

| | |
|---|---|
| Weighing system | Strain gauge |
| Number of weighing ranges | 2 |
| Weighing capacity [Max] | 500 kg; 1000 kg |
| Readability [d] | 0,02 kg; 0,05 kg |
| Reproducibility | 0,02 kg; 0,05 kg |
| Linearity | ± 0,06 kg; 0,15 kg |
| Resolution | 25.000, 20.000 |
| Adjustment options | Adjusting with external weight |
| Recommended adjusting weight | 1000 kg (M1) |
| Stabilization time | 3 s |
| Linearisation in dots | 2 |
| Eccentric loading at 1/3 [Max] | 0,1 kg |
| Construction type of the scale | Multi-range balance |
| Units | kg<br>g<br>lb<br>ffa<br>PCS<br>% |
| Load cell connection | 6-wire |
| Maximum creep (15 minutes) | 200 g |
| Maximum creep (30 minutes) | 400 g |
| Default unit | kg |
| Loadcell type | ZEMIC H8C 0.5 ton |
| Warm-up time | 30 min; 30 min |

## Display

| | |
|---|---|
| Display type | LCD |
| Display type | LCD with backlight |
| Display backlight | ✓ |
| Display screen size | 160×60 mm |
| Display segments | 6 |
| Display digit height | 48 mm |
| Languages of the user interface | English<br>Symbol language |

## Construction

| | |
|---|---|
| Dimension display device (W×D×H) | 220×150×66,5 mm |
| Dimensions weighing surface (W×D) | 1000×1000 mm |
| Dimensions weighing surface | 1000×1000 mm |
| Dimensions weighing platform (W×D×H) | 1000×1000×85 mm |
| Material weighing plate | steel, powder-coated |
| Material platform | steel, powder-coated |
| Material display housing | plastic |
| Material load cell(s) | alloyed steel |
| Level indicator | ✓ |
| Levelling feet adjustable | ✓ |
| Stand rotatable | no |
| Stand inclinable | no |
| Wall mount | ✓ |
| Display device cable length | 5 m |
| Platform Construction | Screwed load plate; smooth surface (unscrewable) |
| Load cells - number | 4 |

## Functions

| | |
|---|---|
| IP protection - complete device | - |
| IP protection - display | no IP protection |
| IP protection - platform | IP67 |
| IP protection - load cell | IP67 |
| PreTare function | ✓ |
| Percentage determination | ✓ |
| Function for averaging under unstable weighing conditions | ✓ |
| Tolerance weighing | ✓ |

# KERN **BFC 1T-5DS**

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| | |
|---|---|
| Counting function | ✓ |
| Auto-off interval(s) in battery mode/rechargeable battery mode | 5 min<br>2 min<br>1 min<br>30 min<br>60 min<br>30 sec |
| Auto-off interval(s) in mains power mode | off |
| Tare function | manual (multi) |
| Counting resolution (laboratory conditions) | 50.000 |
| Counting reference weight can be entered | ✓ |
| Smallest piece weight when piece counting - laboratory conditions | 20 g |
| Reference quantity | 5, 10, 20, 50, n (any number of pieces) |
| Recipe/summing level | Sum A |
| Alibi memory | optional internal memory |
| Alibi memory - number of memory spaces | 250.000 |
| Number of keys for operation | 7 |
| Smallest piece weight when piece counting - normal conditions | 200 g |
| Tolerance weighing - type of signal | acoustically<br>visual |

## Interface

| | |
|---|---|
| Interfaces | RS-232 (optional)<br>Ethernet (optional)<br>Alibi memory (optional, factory)<br>analogue (0 - 10 V) (optional)<br>analogue (4 - 20 mA) (optional)<br>Bluetooth BLE (v4.0) (optional)<br>USB-Device (optional)<br>KUP<br>WiFi (optional) |
| compatible with EasyTouch | ✓ |

## Power Supply

| | |
|---|---|
| Supplied power supply | Power supply unit |
| Power supply type | Power adapter |
| Plug-in power supply / adapter for countries - included with the delivery | EURO<br>UK<br>US<br>CH |
| Plug-in power supply / adapter for countries - optional | EURO<br>UK<br>US<br>CH |
| Input voltage power supply / power [Max] | 100 V - 240 V, 50 / 60 Hz |
| Power supply cable removable | removable |
| Input voltage device / power [Max] | 5,9V, 1A |
| Power socket for mains adapter | Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 13 mm |
| Battery / accumulator type | Li-Metal |
| Battery | 3 V CR2032 |
| Battery capacity | 210 mAh |
| Battery voltage | 3 V |
| Battery – Number of cells | 1 |
| Battery – Individual weight | 3,2 g |
| Battery – Total weight | 3,2 g |
| Battery – Construction | Individual cells |
| Battery capacity (Wh) | 0,66 Wh |
| Battery – Lithium content | 64 mg |
| Battery – Tests passed UN 38.3 | ✓ |
| Rechargeable battery operating time - backlight on | 11 h |
| Rechargeable battery operating time - backlight off | 22 h |
| Rechargeable battery charging time | 8 h |
| Rechargeable battery optional | Rchrg. battery optional - intern |

## Environmental conditions

| | |
|---|---|
| Ambient temperature [Min] | -10 °C |
| Ambient temperature [Max] | 40 °C |
| Humity of environment [Min] | 0 % |
| Humity of environment [Max] | 80 % |

## Services (optional)

| | |
|---|---|
| Article number for adjustment at the location of installation | 961-250 |
| Article number for DAkkS calibration | 963-130 |

# KERN **BFC 1T-5DS**

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| | |
|---|---|
| Article number for certificate of conformity | 969-517 |

## Packing & Shipping

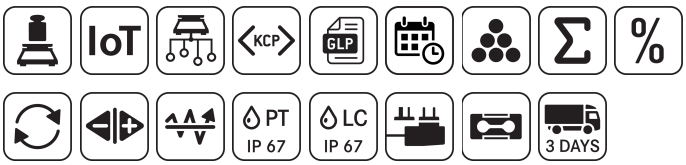
| | |
|---|---|
| Delivery time | 3 d |
| Dimensions packaging (W×D×H) | 1120×1080×360 mm |
| Shipping method | Freight |
| Net weight approx. | 95 kg |
| Gross weight approx. | 135 kg |
| Shipping weight | 132 kg |
| Shipping volume weight | 87,1 kg |

## Product information

| | |
|---|---|
| GTIN/EAN number | 4045761492493 |
| Trade number | 84238220 |
| Warranty Time | 36 mon |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD




### OPTION

### FACTORY