

# SAUTER CB 100-3Q1

Bending beam and shear beam load cell made from stainless steel

**KERN**

|                              |                           |
|------------------------------|---------------------------|
| Dimension (Ø×H)              | 41,5×120 mm               |
| Material                     | stainless steel           |
| Cable length                 | 3 m                       |
| Mounting - force dissipation | 2 × through hole Ø 8,2 mm |
| Mounting - force application | Through-hole Ø 8,2 mm     |

## Functions

|                                 |               |
|---------------------------------|---------------|
| IP protection - complete device | IP68<br>IP69K |
|---------------------------------|---------------|

## Environmental conditions

|                           |        |
|---------------------------|--------|
| Ambient temperature [Min] | -30 °C |
| Ambient temperature [Max] | 70 °C  |
| Use temperature [Min]     | -10 °C |
| Use temperature [Max]     | 40 °C  |

## Approval

|         |   |
|---------|---|
| CE mark | ✓ |
|---------|---|

## Services (optional)

|                                                          |          |
|----------------------------------------------------------|----------|
| Article number for DAkkS calibration (compressive force) | 963-262V |
|----------------------------------------------------------|----------|

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 250×155×60 mm  |
| Shipping method              | Parcel service |
| Net weight approx.           | 0,50 kg        |
| Gross weight approx.         | 0,55 kg        |
| Shipping weight              | 0,545 kg       |

## Pictograms

### STANDARD



### OPTION



## Category

|                  |                |
|------------------|----------------|
| Brand            | Sauter         |
| Product category | Measuring cell |
| Product group    | Load cell      |
| Product family   | CB Q1          |

## Measuring System

|                                                  |             |
|--------------------------------------------------|-------------|
| Weighing capacity [Max]                          | 100 kg      |
| Directions of force                              | compression |
| Load cell connection                             | 4-wire      |
| Load cell OIML class                             | C3          |
| Load cell - Resolution (verifiable)              | 3000 e      |
| Load cell - characteristic value - nominal       | 2 mV/V      |
| Load cell - characteristic value - variance      | 0,002 mV/V  |
| Load cell - Y-value                              | 10000       |
| Load cell - Combined error                       | 0,017%      |
| Load cell - Dead load [Min] (%)                  | 0%          |
| Measuring applications                           | mass        |
| Load cell - Input resistance - nominal           | 400 Ω       |
| Load cell - Output resistance - nominal          | 350 Ω       |
| Load cell - Isolation resistance - [Min]         | 5000 MΩ     |
| Load cell - Recommended excitation voltage [Min] | 10 V        |
| Load cell - Recommended excitation voltage [Max] | 15 V        |
| Load cell - Input resistance - variance          | 20 Ω        |
| Load cell - Output resistance - variance         | 3 Ω         |

## Construction

|        |              |
|--------|--------------|
| Design | bending beam |
|--------|--------------|