

# SAUTER CB 30-3Q1

**KERN**

Bending beam and shear beam load cell made from stainless steel



## Category

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

## Measuring System

|                                                  |                 |
|--------------------------------------------------|-----------------|
| Weighing capacity [Max]                          | 30 kg           |
| Load cell - characteristic value - nominal       | 2 mV/V          |
| Load cell - characteristic value - variance      | 0,002 mV/V      |
| Load cell OIML class                             | C3              |
| Load cell connection                             | 4-wire          |
| Power supply + Colour                            | green           |
| Power supply - Colour                            | black           |
| Signal + Colour                                  | red             |
| Signal - Colour                                  | white           |
| Load cell - Resolution (verifiable)              | 3000 e          |
| Load cell - Dead load [Min] (%)                  | 0%              |
| Measuring applications                           | mass            |
| Directions of force                              | compression     |
| Load cell - Y-value                              | 10000           |
| Load cell - Input resistance - nominal           | 400 $\Omega$    |
| Load cell - Input resistance - variance          | 20 $\Omega$     |
| Load cell - Output resistance - nominal          | 350 $\Omega$    |
| Load cell - Output resistance - variance         | 3 $\Omega$      |
| Load cell - Recommended excitation voltage [Min] | 10 V            |
| Load cell - Recommended excitation voltage [Max] | 15 V            |
| Load cell - Isolation resistance - [Min]         | 5000 M $\Omega$ |

|                                                |                         |
|------------------------------------------------|-------------------------|
| Load cell - Combined error                     | 0,017%                  |
| Temperature coefficient - characteristic value | $\pm 0.003\%$ Sn. /5 °C |
| Zero balance                                   | $\leq \pm 2.0\%$ Sn     |
| Temperature coefficient - zero signal          | $\pm 0.01\%$ Sn. /5 °C  |
| Creep error (30 minutes)                       | $< \pm 0.016$ Sn        |
| Safe overload                                  | 150%                    |
| Ultimate overload                              | 200%                    |

## Functions

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

## Construction

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Material                             | steel, stainless                             |
| Design                               | bending beam                                 |
| Dimension ( $\varnothing \times H$ ) | 41,5 $\times$ 120 mm                         |
| Cable length                         | 3 m                                          |
| Mounting - force application         | Through-hole $\varnothing$ 8,2 mm            |
| Mounting - force dissipation         | 2 $\times$ through hole $\varnothing$ 8,2 mm |

## 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) | 963-261V |
|----------------------------------------------------------|----------|

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761220683            |
| REACH classification | no prohibited substances |

## Packing & Shipping

|                              |                                 |
|------------------------------|---------------------------------|
| Shipping method              | Parcel service                  |
| Delivery time                | 1 d                             |
| Dimensions packaging (WxDxH) | 250 $\times$ 155 $\times$ 60 mm |
| Net weight approx.           | 0,50 kg                         |
| Gross weight approx.         | 0,55 kg                         |
| Shipping weight              | 0,539 kg                        |

# SAUTER CB 30-3Q1

**KERN**

Bending beam and shear beam load cell made from stainless steel

## Pictograms

### STANDARD

---



### OPTION

---

