

# SAUTER CS 2000-3Q1



6-wire "S" measuring cell made of nickel-plated steel for force and mass measurement



## Category

|                  |                           |
|------------------|---------------------------|
| Brand            | Sauter                    |
| Product category | Measuring cell            |
| Product group    | Load/force measuring cell |
| Product family   | CS Q1                     |

## Measuring System

|                                             |                        |
|---------------------------------------------|------------------------|
| Weighing capacity [Max]                     | 2000 kg                |
| Measuring range force [Max] (N)             | 20 kN                  |
| 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                        | 6-wire                 |
| Power supply + Colour                       | green                  |
| Power supply - Colour                       | black                  |
| Signal + Colour                             | red                    |
| Signal - Colour                             | white                  |
| Sense + Colour                              | 75392                  |
| Sense - Colour                              | 75412                  |
| Load cell - Resolution (verifiable)         | 3000 e                 |
| Load cell - Dead load [Min] (%)             | 0%                     |
| Measuring applications                      | force<br>mass          |
| Directions of force                         | tension<br>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   | $\leq \pm 0.006\% \text{Sn} / 5^\circ \text{C}$ |
| Zero balance                                     | $\pm 2.0\% \text{Sn}$                           |
| Temperature coefficient - zero signal            | $\leq \pm 0.01\% \text{Sn} / 5^\circ \text{C}$  |
| Creep error (30 minutes)                         | $\leq \pm 0.016\% \text{Sn}$                    |
| Safe overload                                    | 150%                                            |
| Ultimate overload                                | 300%                                            |

## Functions

|                                 |      |
|---------------------------------|------|
| IP protection - complete device | IP67 |
|---------------------------------|------|

## Construction

|                              |                      |
|------------------------------|----------------------|
| Material                     | steel, nickel-plated |
| Design                       | "S" shaped cell      |
| Dimension (W×D×H)            | 90×70×32 mm          |
| Cable length                 | 5 m                  |
| Mounting - force application | Threaded hole M16    |
| Mounting - force dissipation | Threaded hole M16    |

## Environmental conditions

|                           |                       |
|---------------------------|-----------------------|
| Ambient temperature [Min] | -10 $^\circ \text{C}$ |
| Ambient temperature [Max] | 40 $^\circ \text{C}$  |
| Storage temperature [Min] | -30 $^\circ \text{C}$ |
| Storage temperature [Max] | 70 $^\circ \text{C}$  |

## Approval

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

## Services (optional)

|                                                                           |          |
|---------------------------------------------------------------------------|----------|
| Article number for factory calibration (tensile force)                    | 961-164V |
| Article number for factory calibration (tensile force/ compressive force) | 961-364V |

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## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761222014            |
| REACH classification | no prohibited substances |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Shipping method              | Parcel service |
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 250×155×60 mm  |
| Net weight approx.           | 1,4 kg         |
| Gross weight approx.         | 1,6 kg         |
| Shipping weight              | 1,494 kg       |

## Pictograms

### STANDARD



### OPTION

