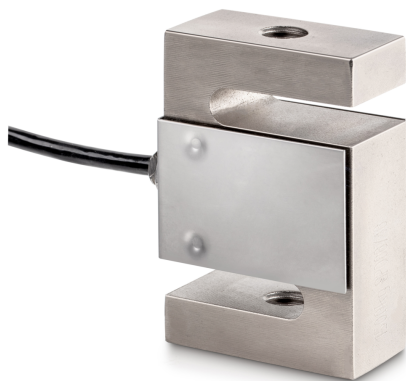


# SAUTER CS 2000-3P1

**KERN**

4-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 P1                     |

## Measuring System

|                                            |         |
|--------------------------------------------|---------|
| Weighing capacity [Max]                    | 2000 kg |
| Measuring range force [Max] (N)            | 20 kN   |
| Load cell - characteristic value - nominal | 2 mV/V  |
| Load cell OIML class                       | C3      |
| Load cell connection                       | 4-wire  |
| Power supply + Colour                      | red     |
| Power supply - Colour                      | black   |
| Signal + Colour                            | green   |
| Signal - Colour                            | white   |
| Load cell - Resolution (verifiable)        | 3000 e  |

|                        |                        |
|------------------------|------------------------|
| Measuring applications | force<br>mass          |
| Directions of force    | tension<br>compression |

|                     |       |
|---------------------|-------|
| Load cell - Y-value | 10000 |
|---------------------|-------|

|                                        |              |
|----------------------------------------|--------------|
| Load cell - Input resistance - nominal | 350 $\Omega$ |
|----------------------------------------|--------------|

|                                         |              |
|-----------------------------------------|--------------|
| Load cell - Output resistance - nominal | 351 $\Omega$ |
|-----------------------------------------|--------------|

|                                                  |     |
|--------------------------------------------------|-----|
| Load cell - Recommended excitation voltage [Min] | 5 V |
|--------------------------------------------------|-----|

|                                                  |      |
|--------------------------------------------------|------|
| Load cell - Recommended excitation voltage [Max] | 12 V |
|--------------------------------------------------|------|

|                                          |                |
|------------------------------------------|----------------|
| Load cell - Isolation resistance - [Min] | 500 M $\Omega$ |
|------------------------------------------|----------------|

|                            |       |
|----------------------------|-------|
| Load cell - Combined error | 0,02% |
|----------------------------|-------|

|               |      |
|---------------|------|
| 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)            | 76,2×101,6×27,2 mm      |
| Cable length                 | 6 m                     |
| Mounting - force application | Threaded hole M20 × 1,5 |
| Mounting - force dissipation | Threaded hole M20 × 1,5 |

## Environmental conditions

|                           |        |
|---------------------------|--------|
| Ambient temperature [Min] | -35 °C |
| Ambient temperature [Max] | 65 °C  |
| Use temperature [Min]     | -10 °C |
| Use temperature [Max]     | 40 °C  |
| Storage temperature [Min] | -40 °C |
| Storage temperature [Max] | 70 °C  |

## Approval

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

## Services (optional)

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

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

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761221482            |
| REACH classification | no prohibited substances |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Shipping method              | Parcel service |
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 200×170×60 mm  |
| Net weight approx.           | 1,4 kg         |
| Gross weight approx.         | 1,6 kg         |
| Shipping weight              | 1,41 kg        |

# SAUTER CS 2000-3P1



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

## Pictograms

### STANDARD

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### OPTION

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