

SAUTER CS 5000-3Q1

KERN

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]	5000 kg
Measuring range force [Max] (N)	50 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	blue
Sense - Colour	yellow
Load cell - Resolution (verifiable)	3000 e
Load cell - Dead load [Min] (%)	0%
Measuring applications	force mass
Directions of force	tension compression
Load cell - Y-value	10000
Load cell - Input resistance - nominal	400 Ω
Load cell - Output resistance - nominal	350 Ω

Load cell - Input resistance - variance	20 Ω
Load cell - Output resistance - variance	3 Ω
Load cell - Recommended excitation voltage [Min]	10 V
Load cell - Recommended excitation voltage [Max]	15 V
Load cell - Isolation resistance - [Min]	5000 M Ω
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
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Construction

Material	steel, nickel-plated
Design	"S" shaped cell
Dimension (W×D×H)	120×100×45 mm
Cable length	5 m
Mounting - force application	Threaded hole M24 × 2
Mounting - force dissipation	Threaded hole M24 × 2

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	✓
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Services (optional)

Article number for factory calibration (compressive force)	961-265V
Article number for factory calibration (tensile force)	961-165V
Article number for factory calibration (tensile force/ compressive force)	961-365V

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Product information

GTIN/EAN number	4045761222052
Trade number	90249000
REACH classification	no prohibited substances

Packing & Shipping

Shipping method	Parcel service
Delivery time	1 d
Dimensions packaging (W×D×H)	220×135×100 mm
Net weight approx.	3,4 kg
Gross weight approx.	3,6 kg
Shipping volume weight	0,6 kg

Pictograms

STANDARD



OPTION

