

# KERN CS 100-3Q1

# KERN

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



Load cell - Output resistance - variance	3 $\Omega$
Measuring range force [Max] (N)	1 kN
Directions of force	tension compression

Approval	
CE mark	✓

Construction	
Design	"S" shaped cell
Dimension (W×D×H)	80×62,1×19 mm
Material	steel, nickel-plated
Cable length	5 m
Mounting - force application	Threaded hole M12
Mounting - force dissipation	Threaded hole M12

Functions	
IP protection - complete device	IP67

Environmental conditions	
Ambient temperature [Min]	-10 °C
Ambient temperature [Max]	40 °C
Storage temperature [Min]	-30 °C
Storage temperature [Max]	70 °C

Packing & Shipping	
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	250×155×60 mm
Net weight	0,78 kg
Shipping method	Parcel service
Net weight approx.	0,80 kg
Gross weight approx.	0,90 kg
Shipping weight	0,895 kg

Services (optional)	
Article number for DAkKS calibration (tensile force)	963-162V
Article number for DAkKS calibration (compressive force)	963-262V
Article number for DAkKS calibration (tensile force/ compressive force)	963-362V

## Category

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

## Measuring System

Weighing capacity [Max]	100 kg
Load cell connection	6-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	force mass
Load cell - Input resistance - nominal	400 $\Omega$
Load cell - Output resistance - nominal	350 $\Omega$
Load cell - Isolation resistance - [Min]	5000 M $\Omega$
Load cell - Recommended excitation voltage [Min]	10 V
Load cell - Recommended excitation voltage [Max]	15 V
Load cell - Input resistance - variance	20 $\Omega$

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## Pictograms

### STANDARD

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### OPTION

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