

# KERN CS 500-3P1

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



Measuring range force [Max] (N)	5 kN
Directions of force	tension compression

Approval	
CE mark	✓

Construction	
Design	"S" shaped cell
Dimension (W×D×H)	50,8×76,2×20,8 mm
Material	steel, nickel-plated
Cable length	3 m
Mounting - force application	Threaded hole M12
Mounting - force dissipation	Threaded hole M12

Functions	
IP protection - complete device	IP67

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

Packing & Shipping	
Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	185×155×60 mm
Net weight	0,511 kg
Shipping method	Parcel service
Net weight approx.	0,55 kg
Gross weight approx.	0,65 kg
Shipping weight	0,608 kg

Services (optional)	
Article number for DAkkS calibration (tensile force)	963-163V
Article number for DAkkS calibration (compressive force)	963-263V
Article number for DAkkS calibration (tensile force/ compressive force)	963-363V

Category	
Brand	Sauter
Product category	Measuring cell
Product group	Load/force measuring cell
Product family	CS P1

Measuring System	
Weighing capacity [Max]	500 kg
Load cell connection	4-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	0,004 mV/V
Load cell - Y-value	10000
Load cell - Combined error	0,02%
Load cell - Dead load [Min] (%)	0%
Measuring applications	force mass
Load cell - Input resistance - nominal	350 Ω
Load cell - Output resistance - nominal	351 Ω
Load cell - Recommended excitation voltage [Min]	5 V
Load cell - Recommended excitation voltage [Max]	12 V
Load cell - Input resistance - variance	3,5 Ω
Load cell - Output resistance - variance	2 Ω

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## Pictograms

### STANDARD

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### OPTION

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