

SAUTER CB 100-3Q1

KERN

Bending beam and shear beam load cell made from stainless steel



Category

Brand	Sauter
Product category	Measuring cell
Product group	Load cell
Product family	CB Q1

Measuring System

Weighing capacity [Max]	100 kg
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	4-wire
Power supply + Colour	green
Power supply - Colour	black
Signal + Colour	red
Signal - Colour	white
Load cell - Resolution (verifiable)	3000 e
Load cell - Dead load [Min] (%)	0%
Measuring applications	mass
Directions of force	compression
Load cell - Y-value	10000
Load cell - Input resistance - nominal	400 Ω
Load cell - Input resistance - variance	20 Ω
Load cell - Output resistance - nominal	350 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	$\pm 0.003\%$ Sn. /5 °C
Zero balance	$\leq \pm 2.0\%$ Sn
Temperature coefficient - zero signal	$\pm 0.01\%$ Sn. /5 °C
Creep error (30 minutes)	$< \pm 0.008$ Sn
Safe overload	150%
Ultimate overload	200%

Functions

IP protection - complete device	IP68 IP69K
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Construction

Material	steel, stainless
Design	bending beam
Dimension ($\varnothing \times H$)	41,5 $\times$ 120 mm
Cable length	3 m
Mounting - force application	Through-hole $\varnothing$ 8,2 mm
Mounting - force dissipation	2 $\times$ through hole $\varnothing$ 8,2 mm

Environmental conditions

Ambient temperature [Min]	-30 °C
Ambient temperature [Max]	70 °C
Use temperature [Min]	-10 °C
Use temperature [Max]	40 °C

Approval

CE mark	✓
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Services (optional)

Article number for DAkkS calibration (compressive force)	963-262V
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Product information

GTIN/EAN number	4045761220676
REACH classification	no prohibited substances

Packing & Shipping

Shipping method	Parcel service
Delivery time	1 d
Dimensions packaging (WxDxH)	250 $\times$ 155 $\times$ 60 mm
Net weight approx.	0,50 kg
Gross weight approx.	0,55 kg
Shipping weight	0,545 kg

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Pictograms

STANDARD



OPTION

