SAUTER **CB 50-3Q1**

Bending beam and shear beam load cell made from stainless steel

Date of creation: 10.08.2026

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

Measuring System	
Weighing capacity [Max]	50 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 sell - 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 exitation voltage [Min]	10 V
Load cell - Recommended exitation voltage [Max]	15 V
Load cell - Isolation resistance - [Min]	5000 MΩ
Load cell - Combined error	0,017%
Temperature coefficient - characteristic value	± 0.003% Sn. /5 °C
Zero balance	≤± 2.0%Sn
Temperature coefficient - zero signal	± 0.01% Sn. /5 °C
Creep error (30 minutes)	<+- 0.016 Sn
Safe overload	150%
Ultimate overload	200%

Functions	
IP protection - complete device	IP68 IP69K

Construction	
Material	steel, stainless
Design	bending beam
Dimension (Ø×H)	41,5×120 mm
Cable length	3 m
Mounting - force application	Through-hole Ø 8,2 mm
Mounting - force dissipation	2 × through hole Ø 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	✓

Services (optional)	
Article number for DAkkS calibration (compressive force)	963-261V

Product information	
Warranty Time	24 mon
Trade number	84239010
GTIN/EAN number	4045761220744

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Packing & Shipping

Shipping method	Parcel service
Delivery time	1 d
Dimensions packaging (W×D×H)	250×155×60 mm
Net weight approx.	0,50 kg
Gross weight approx.	0,55 kg
Shipping volume weight	0,5 kg

Pictograms

STANDARD

OPTION