SAUTER **CS 50-3Q1**

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



Date of creation: 24.10.2026

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

Measuring System	
Weighing capacity [Max]	50 kg
Measuring range force [Max] (N)	500 N
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 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	≤± 0.006%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	300%

Functions	
IP protection - complete device	IP67

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

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

Approval	
CE mark	✓

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Services (optional)	
Article number for DAkkS calibration (compressive force)	963-261V
Article number for DAkkS calibration (tensile force)	963-161V
Article number for DAkkS calibration (tensile force/ compressive force)	963-361V

Product information	
GTIN/EAN number	4045761222076
Trade number	90249000
Warranty Time	24 mon
REACH classification	no prohibited substances

Packing & Shipping	
Shipping method	Parcel service
Delivery time	1 d
Dimensions packaging (W×D×H)	250×155×60 mm
Net weight approx.	0,80 kg
Gross weight approx.	0,90 kg
Shipping volume weight	0,5 kg

Pictograms

STANDARD



OPTION

