

SAUTER CR 5000-1Y1

Loadcell made of steel alloy

KERN

Category

Brand	Sauter
Product category	Measuring cell
Product group	Load/force measuring cell
Product family	CR Y1

Measuring System

Weighing capacity [Max]	5000 kg
Measuring range force [Max] (N)	50 kN
Load cell - characteristic value - nominal	2 mV/V
Load cell OIML class	C1
Load cell connection	4-wire
Power supply + Colour	red
Power supply - Colour	black
Signal + Colour	green
Signal - Colour	white

Measuring applications
force
mass

Directions of force
tension
compression

Load cell - Input resistance - nominal
380 Ω

Load cell - Input resistance - variance
10 Ω

Load cell - Output resistance - nominal
350 Ω

Load cell - Output resistance - variance
3 Ω

Load cell - Recommended excitation voltage [Min]
5 V

Load cell - Recommended excitation voltage [Max]
10 V

Load cell - Isolation resistance - [Min]
5000 M Ω

Load cell - Combined error
0,05%

Temperature coefficient - characteristic value
 $\leq \pm 0.05\%FS/10\text{ }^{\circ}C$

Zero balance
 $\pm 1.0\%FS$

Temperature coefficient - zero signal
 $\leq \pm 0.05\%FS/10\text{ }^{\circ}C$

Creep error (30 minutes)
 $\leq \pm 0.05\%FS$

Safe overload
150%

Ultimate overload
200%

Functions

IP protection - complete device
IP68

Construction

Material	steel
Design	Load cell
Dimension ($\varnothing \times H$)	105 $\times$ 37 mm
Cable length	3 m
Mounting - force application	Pressure piece Threaded hole M16 $\times$ 1,5
Mounting - force dissipation	8 $\times$ through hole $\varnothing$ 6,5 mm

Environmental conditions

Use temperature [Min]	-20 $^{\circ}C$
Use temperature [Max]	65 $^{\circ}C$

Approval

CE mark
✓

Services (optional)

Article number for factory calibration (compressive force)
961-265V

Article number for factory calibration (tensile force)
961-165V

Article number for factory calibration (tensile force/
compressive force)
961-365V

Product information

GTIN/EAN number	4045761246188
REACH classification	no prohibited substances

Packing & Shipping

Shipping method	Parcel service
Delivery time	1 d
Dimensions packaging (W $\times$ D $\times$ H)	200 $\times$ 165 $\times$ 135 mm
Net weight approx.	1,8 kg

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Gross weight approx.	2,0 kg
Shipping weight	1,835 kg

Pictograms

STANDARD



OPTION

