

# KERN CD 50-3P1

**KERN**

Loadcell made of stainless steel



## Category

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

## Measuring System

Weighing capacity [Max]	50000 kg
Measuring range force [Max] (N)	500 kN
Directions of force	compression
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	0,002 mV/V
Load cell - Y-value	10000
Load cell - Combined error	0,023%
Load cell - Dead load [Min] (%)	0%
Measuring applications	force mass
Load cell - Input resistance - nominal	700 $\Omega$
Load cell - Output resistance - nominal	703 $\Omega$
Load cell - Isolation resistance - [Min]	5000 M $\Omega$
Load cell - Recommended excitation voltage [Min]	5 V
Load cell - Recommended excitation voltage [Max]	12 V

Load cell - Input resistance - variance	7 $\Omega$
---	------------

Load cell - Output resistance - variance	4 $\Omega$
--	------------

## Construction

Design	Load cell
Dimension ( $\varnothing \times H$ )	88,9 $\times$ 118,5 mm
Material	stainless steel
Cable length	15 m
Mounting - force dissipation	Pressure piece
Mounting - force application	Pressure piece

## Functions

IP protection - complete device	IP68
---------------------------------	------

## Environmental conditions

Ambient temperature [Min]	-35 $^{\circ}$ C
Ambient temperature [Max]	65 $^{\circ}$ C
Use temperature [Min]	-10 $^{\circ}$ C
Use temperature [Max]	40 $^{\circ}$ C
Storage temperature [Min]	-40 $^{\circ}$ C
Storage temperature [Max]	70 $^{\circ}$ C

## Approval

CE mark	✓
---------	---

## Packing & Shipping

Delivery time	2 d
Dimensions packaging (WxDxH)	215 $\times$ 220 $\times$ 160 mm
Net weight	2,706 kg
Shipping method	Parcel service
Net weight approx.	2,8 kg
Gross weight approx.	3,2 kg
Shipping weight	3,2 kg

## Pictograms

STANDARD

