

KERN CR 2500-1Q1

Force measuring cell made of stainless steel

KERN



| | |
|---------------------------------|-------------|
| Measuring range force [Max] (N) | 25 kN |
| Directions of force | compression |

Approval

| | |
|---------|---|
| CE mark | ✓ |
|---------|---|

Construction

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|-----------------|-----------------|
| Design | Bending ring |
| Material | stainless steel |
| Cable length | 10 m |
| Dimension (Ø×H) | 82×44 mm |

Functions

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

Environmental conditions

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|---------------------------|--------|
| Use temperature [Min] | -10 °C |
| Use temperature [Max] | 40 °C |
| Ambient temperature [Min] | -50 °C |
| Ambient temperature [Max] | 70 °C |

Packing & Shipping

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|------------------------------|----------------|
| Readability force [d] (N) | 1 d |
| Dimensions packaging (W×D×H) | 250×155×60 mm |
| Net weight | 1,05 kg |
| Shipping method | Parcel service |
| Net weight approx. | 1,2 kg |
| Gross weight approx. | 1,2 kg |
| Shipping weight | 1,096 kg |

Services (optional)

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

STANDARD



OPTION



Category

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|------------------|---------------------------|
| Brand | Sauter |
| Product category | Measuring cell |
| Product group | Load/force measuring cell |
| Product family | CR Q1 |

Measuring System

| | |
|--|---------------|
| Weighing capacity [Max] | 2500 kg |
| Load cell connection | 4-wire |
| Load cell OIML class | C1 |
| Load cell - Resolution (verifiable) | 1000e |
| 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 | 0,05% |
| Load cell - Dead load [Min] (%) | 0% |
| Measuring applications | force mass |
| Load cell - Input resistance - nominal | 800 Ω |
| Load cell - Output resistance - nominal | 700 Ω |
| Load cell - Isolation resistance - [Min] | 5000 MΩ |
| Load cell - Recommended excitation voltage [Min] | 10 V |
| Load cell - Recommended excitation voltage [Max] | 15 V |
| Load cell - Input resistance - variance | 30 Ω |
| Load cell - Output resistance - variance | 5 Ω |