

# SAUTER CO 500-Y1

Miniature cylindrical load cell made from stainless steel

**KERN**

|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| Load cell - Combined error                     | 0,5%                                          |
| Temperature coefficient - characteristic value | $\pm 0.05\% \text{ F.S.} / 10^\circ \text{C}$ |
| Zero balance                                   | $\pm 1 \sim 1.5 \text{ mV/V}$                 |
| Temperature coefficient - zero signal          | $\pm 0.05\% \text{ F.S.} / 10^\circ \text{C}$ |
| Creep error (30 minutes)                       | $\pm 0.05\% \text{ FS}$                       |
| Safe overload                                  | 150%                                          |
| Ultimate overload                              | 200%                                          |

## Functions

|                                 |      |
|---------------------------------|------|
| IP protection - complete device | IP65 |
|---------------------------------|------|

## Construction

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Material                             | steel, stainless                  |
| Design                               | Load cell                         |
| Dimension ( $\varnothing \times H$ ) | 26 × 15 mm                        |
| Cable length                         | 2 m                               |
| Mounting - force application         | Thrust piece (from customer side) |
| Mounting - force dissipation         | 3 × threaded hole M4              |

## Environmental conditions

|                       |       |
|-----------------------|-------|
| Use temperature [Min] | 0 °C  |
| Use temperature [Max] | 40 °C |

## Approval

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

## Services (optional)

|                                                          |          |
|----------------------------------------------------------|----------|
| Article number for DAkkS calibration (compressive force) | 963-263V |
|----------------------------------------------------------|----------|

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761233041            |
| REACH classification | no prohibited substances |

## Packing & Shipping

|                              |                |
|------------------------------|----------------|
| Shipping method              | Parcel service |
| Delivery time                | 1 d            |
| Dimensions packaging (W×D×H) | 120×90×85 mm   |
| Net weight approx.           | 0,10 kg        |
| Gross weight approx.         | 0,15 kg        |
| Shipping weight              | 0,2 kg         |

| Category         |                           |
|------------------|---------------------------|
| Brand            | Sauter                    |
| Product category | Measuring cell            |
| Product group    | Load/force measuring cell |
| Product family   | CO Y1                     |

| Measuring System                                 |                 |
|--------------------------------------------------|-----------------|
| Weighing capacity [Max]                          | 500 kg          |
| Measuring range force [Max] (N)                  | 5 kN            |
| Load cell - characteristic value - nominal       | 1,5 mV/V        |
| Load cell OIML class                             | G5              |
| Load cell connection                             | 4-wire          |
| Power supply + Colour                            | red             |
| Power supply - Colour                            | black           |
| Signal + Colour                                  | green           |
| Signal - Colour                                  | white           |
| Measuring applications                           | force<br>mass   |
| Directions of force                              | compression     |
| Load cell - Input resistance - nominal           | 350 $\Omega$    |
| Load cell - Input resistance - variance          | 20 $\Omega$     |
| Load cell - Output resistance - nominal          | 350 $\Omega$    |
| Load cell - Output resistance - variance         | 3 $\Omega$      |
| Load cell - Recommended excitation voltage [Min] | 9 V             |
| Load cell - Recommended excitation voltage [Max] | 12 V            |
| Load cell - Isolation resistance - [Min]         | 5000 M $\Omega$ |

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## Pictograms

### STANDARD

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### OPTION

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