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# Load-cell series RC 3

## Force from 0 ... 7.5 t up to 0 ... 100 t

**Features**

- DMS-load cell for industrial applications
- Available as standard- or Ex-device KEMA 02ATEX 1123X
- Bridge resistance 1150 Ω
- Output signal 2 mV/V, exact sensitivty labelled on the type plate
- Basic accuracy 0.05 % (0.02 %)
- Repeatability 0.025 %
- Bridge supply max. 15 V DC
- Zero unbalance <5 %
- Operating temperature -40 ... 60 °C
- Maximum overload 200 %
- Breaking load 300 %
- Connection cable 12 m
- Material: stainless steel 1.4548
- Protection IP67

**Ordering code: RC3 -** 1. ☐ - 2. ☐ - 3. ☐ - 4. ☐ - 5. ☐

**1. Model**

| | |
|---|---|
| 00 | Standard for applications in Non-Ex-area |
| Ex | Model acc. to KEMA 02ATEX 1123X |

**2. Model size**

| | | |
|---|---|---|
| 01 | Nominal load | 7.5 ... 22.5 t |
| 02 | Nominal load | 30 t |
| 03 | Nominal load | 40 t |
| 04 | Nominal load | 50 t |
| 05 | Nominal load | 100 t |

**3. Nominal load**

Please state in plain text [t] (notice model size)
7.5 / 15 / 22.5 / 30 / 40 / 50 / 100 t

**4. Options**

| | |
|---|---|
| 00 | without option |
| 01 | Basic accuracy 0.02% (instead 0.05 %) |

Connection diagram and dimensions next page

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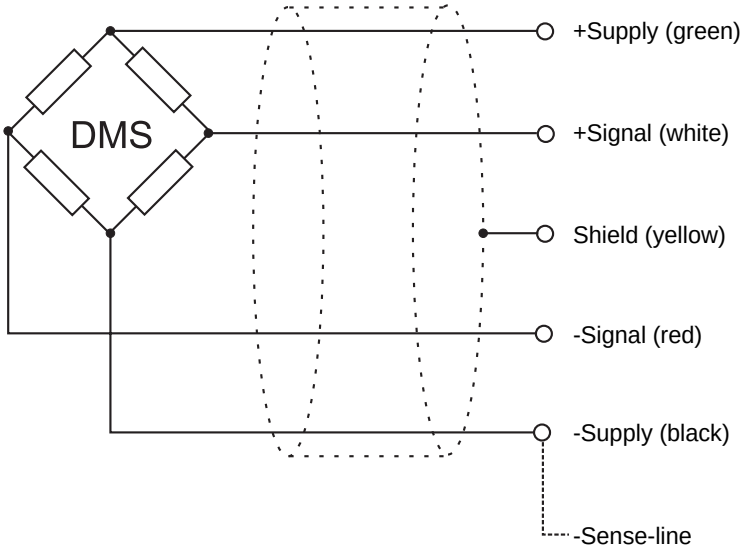
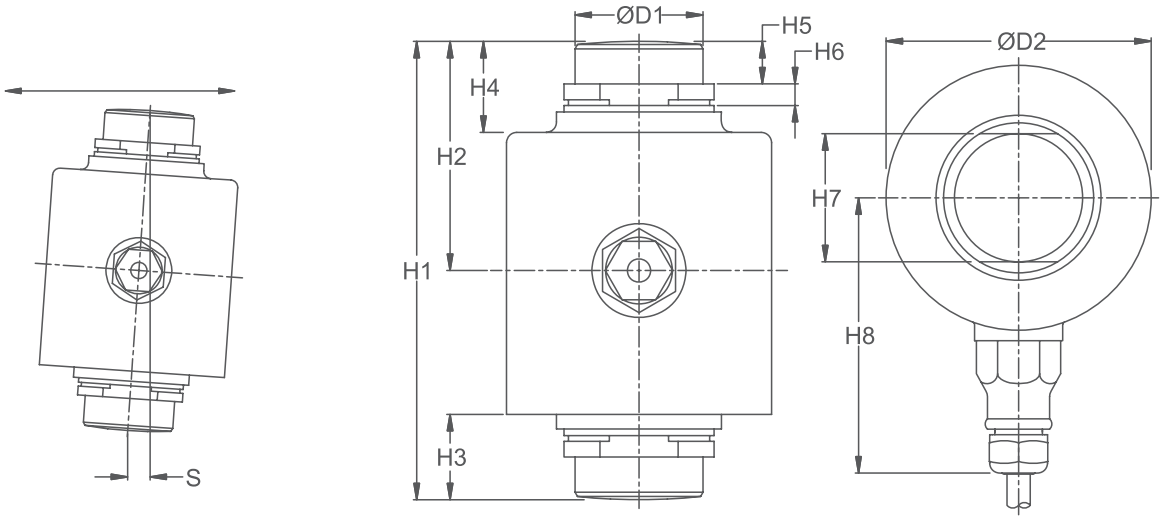
## Connection diagram




Bridge supply max. 15 V DC

The sense line is used to compensate line resistance from load-cell to DMS-Transmitter. For distances more than 5 m it is recommended to use the sense line.

## Dimensions




**Dimension table** [mm]

| Model size | H1 | H2 | H3 | H4 | H5 | H6 | H7 | H8 | D1 | D2 | $S_{max}$* | RF** [kN] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 89 | 44 | 17 | 23 | 11 | 6 | 28 | 75 | 28 | 69 | 8 | 11 |
| 01 | 89 | 44 | 17 | 23 | 11 | 6 | 28 | 75 | 28 | 69 | 7 | 20 |
| 01 | 89 | 44 | 17 | 23 | 11 | 6 | 28 | 75 | 28 | 69 | 4.5 | 30 |
| 02 | 140 | 80 | 26 | 28 | 13 | 6.5 | 39 | 84 | 39 | 81 | 10.5 | 34 |
| 03 | 150 | 75 | 31 | 33 | 13 | 11.7 | 39 | 84 | 39 | 81 | 10 | 37 |
| 04 | 178 | 89 | 32 | 34 | 17 | 8.5 | 44 | 94 | 44 | 99 | 9 | 51 |
| 05 | 178 | 89 | 38.5 | 38.5 | 17 | 12 | 62 | 93.8 | 62 | 141.3 | 11.5 | 152 |

* Smax, maximal horizontal movement of the load
** RF restoring force at max. overload or breaking load