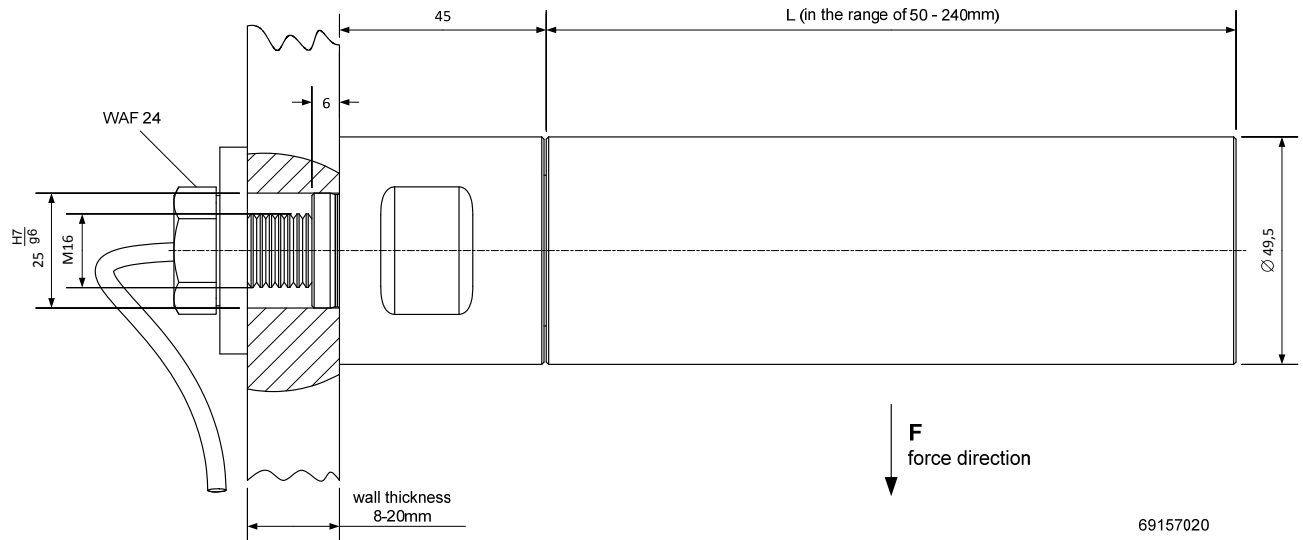
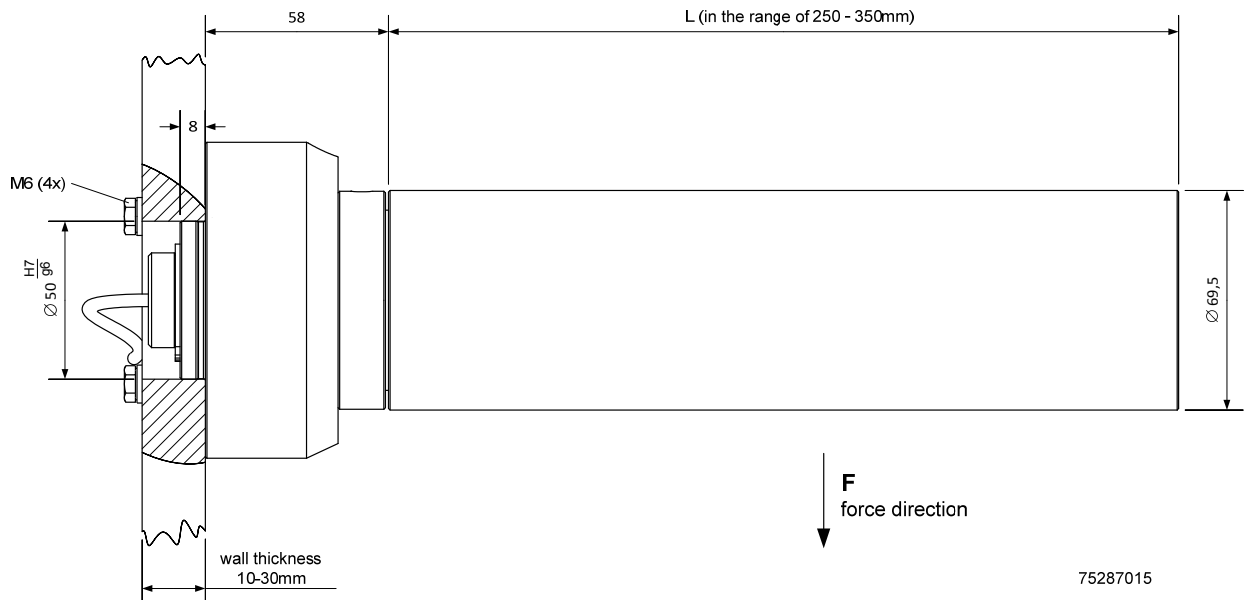


## Scale drawing

### Construction size 2



### Construction size 3



All dimensions in mm  
WAF: width across flats

Rated measuring ranges

| Size | Nominal force [N] |     |     |     |                 |     |      |      |      |                     |  |  |
|------|-------------------|-----|-----|-----|-----------------|-----|------|------|------|---------------------|--|--|
|      |                   |     |     |     | HR (High Range) |     |      |      |      | XR (Extended Range) |  |  |
| 2    | 100               | 200 | 300 | 400 | 500             | 600 | 1000 | 1200 | 1500 | 3000                |  |  |
| 3    | 100               | 200 | 300 | 400 | 500             | 600 | 1000 | 1200 | 1500 | 3000                |  |  |

The measuring range of the sensor begins at force's zero point.  
Nominal forces differing from the list are available.

Order code

| RMA-CSW             |  |                            |  | 2 | - 600 | - 100 | - 3 | - O |
|---------------------|--|----------------------------|--|---|-------|-------|-----|-----|
| Sensor type         |  |                            |  |   |       |       |     |     |
| Construction size   |  |                            |  |   |       |       |     |     |
| Nominal force [N]   |  |                            |  |   |       |       |     |     |
| Roll length L [mm]  |  |                            |  |   |       |       |     |     |
| Length of cable [m] |  | standard: 3                |  |   |       |       |     |     |
|                     |  | option: required length    |  |   |       |       |     |     |
| Connection          |  | standard: O with open ends |  |   |       |       |     |     |
|                     |  | option: S with male plug   |  |   |       |       |     |     |

Scope of supply

Sensor with roll

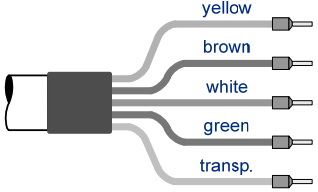
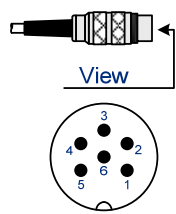
Options

- connection cable with male plug
- length of connection cable differing from standard
- special connection cable, e.g. oil-resistant or for use in Ex-protection areas

Special designs

- nominal forces differing from standard
- sensor housing and measuring cell made out of stainless steel, for use in humid environment
- advanced temperature range

Connections

| Standard: Connection type „O“                                                                   |  |            |  | Option: Connection type „S“                                                                  |  |            |  |
|-------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------------------------|--|------------|--|
| <br>67164003 |  |            |  | <br>View |  |            |  |
| +U <sub>Br</sub>                                                                                |  | Excitation |  | 1 +U <sub>Br</sub>                                                                           |  | Excitation |  |
| -U <sub>Br</sub>                                                                                |  |            |  | 2 -U <sub>Br</sub>                                                                           |  |            |  |
| +U <sub>Sig</sub>                                                                               |  | Output     |  | 3 Shield<br>(not connected to housing)                                                       |  |            |  |
| -U <sub>Sig</sub>                                                                               |  |            |  | 4 +U <sub>Sig</sub>                                                                          |  | Output     |  |
| Shield<br>(not connected to housing)                                                            |  |            |  | 5 -U <sub>Sig</sub>                                                                          |  |            |  |
|                                                                                                 |  |            |  | 6 Reserved                                                                                   |  |            |  |

## Technical data

|                                        |                        |                                                                            |                                  |
|----------------------------------------|------------------------|----------------------------------------------------------------------------|----------------------------------|
| Rated measuring ranges (FN)            | <b>N</b>               | 0 - 100 to 0 - 3000                                                        |                                  |
| Rated output                           | <b>mV/V</b>            | 1                                                                          |                                  |
| Rated output tolerance                 | <b>%</b>               | < ±0,2                                                                     |                                  |
| Accuracy class                         |                        | 0,2                                                                        |                                  |
| Accumulated error                      | <b>% F<sub>N</sub></b> | < ±0,2                                                                     |                                  |
| Excitation voltage max.                | <b>V</b>               | 12                                                                         |                                  |
| Reference excitation voltage           | <b>V</b>               | 4,5                                                                        |                                  |
| Input resistance                       | <b>Ω</b>               | 350 ±3                                                                     |                                  |
| Output resistance                      | <b>Ω</b>               | 350 ±2                                                                     |                                  |
| Isolation resistance                   | <b>GΩ</b>              | > 5                                                                        |                                  |
| Nominal temperature range              | <b>°C</b>              | 0...50                                                                     |                                  |
| Operational temperature range          | <b>°C</b>              | -10...70                                                                   |                                  |
| Storage temperature range              | <b>°C</b>              | -30...90                                                                   |                                  |
| Reference temperature                  | <b>°C</b>              | 23                                                                         |                                  |
| Temperature influence per 10 K         |                        |                                                                            |                                  |
| - on the zero point (TK0)              | <b>% F<sub>N</sub></b> | < ±0,1                                                                     |                                  |
| - on the calibration (TKC)             | <b>% F<sub>N</sub></b> | < ±0,2                                                                     |                                  |
| Creep after 30 minutes                 | <b>% F<sub>N</sub></b> | < ±0,1                                                                     |                                  |
| Relative reversal error                | <b>% F<sub>N</sub></b> | < ±0,2                                                                     |                                  |
| Service load                           | <b>% F<sub>N</sub></b> | 300                                                                        |                                  |
| Ultimate load                          | <b>% F<sub>N</sub></b> | 400                                                                        |                                  |
| Breaking load                          | <b>% F<sub>N</sub></b> | > 500                                                                      |                                  |
| Ultimate side load                     | <b>% F<sub>N</sub></b> | 300                                                                        |                                  |
| Dynamic load limit (DIN 50100)         | <b>% F<sub>N</sub></b> | 50                                                                         |                                  |
| Axial torsional moment limit           | <b>Nm</b>              | 35                                                                         |                                  |
| Deflection at nominal force            | <b>mm</b>              | < 0,04                                                                     |                                  |
| Natural frequency of the sensor        | <b>kHz</b>             | depending on roll geometry and nominal force                               |                                  |
| Weight<br>(depending on roll geometry) | <b>kg</b>              | Construction size 2<br>approx. 1,8                                         | Construction size 3<br>approx. 5 |
| Connection cable                       |                        | 3 m long, flexible, shielded,<br>4 x 0,14 mm <sup>2</sup> , total-Ø 4,5 mm |                                  |
| Surface protection                     |                        | black-finished                                                             |                                  |
| Protection class                       |                        | IP 54                                                                      |                                  |

Technical design subject to change without prior notice. © 2019 by Honigmann

Honigmann Industrielle Elektronik GmbH • Krebsstraße 2-8 • D-42289 Wuppertal • ☎ +49-202-870972-0 • 📠 +49-202-870972-99