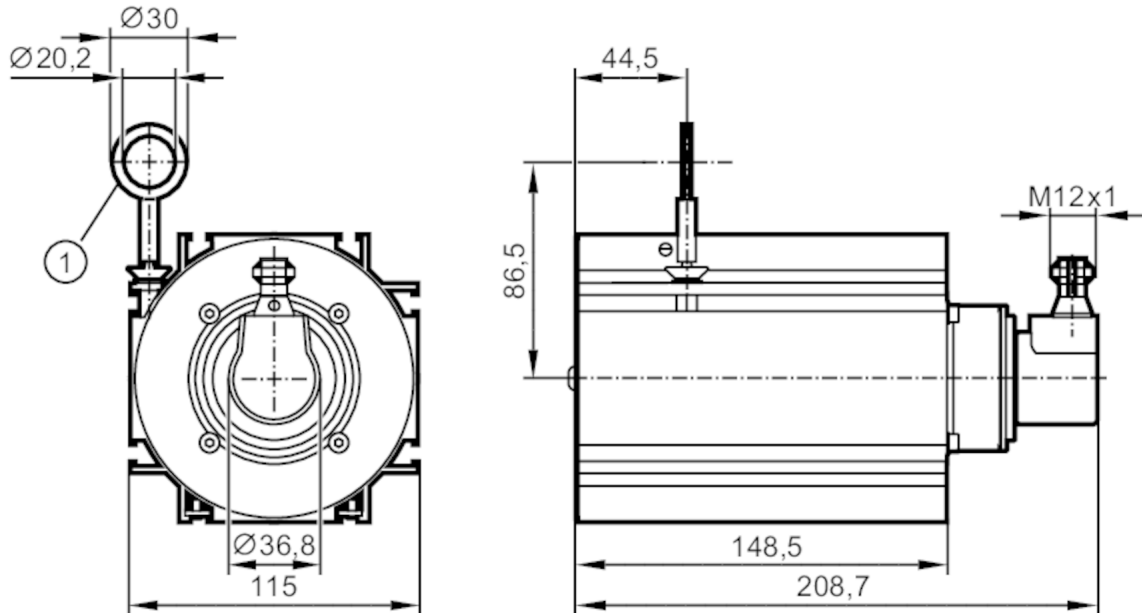


# RMS005



## Draw wire encoder

DRAW WIRE ENCODER



1 eyelet



### Product characteristics

|                         |                                      |
|-------------------------|--------------------------------------|
| Resolution              | 4096 steps; 4096 revolutions; 24 bit |
| Communication interface | CAN                                  |

### Application

|                    |          |
|--------------------|----------|
| Function principle | absolute |
| Detection system   | magnetic |
| Application        | encoder  |

### Electrical data

|                               |           |
|-------------------------------|-----------|
| Operating voltage [V]         | 9...30 DC |
| Current consumption [mA]      | 50...100  |
| Protection class              | III       |
| Reverse polarity protection   | yes       |
| Max. power-on delay time [ms] | 500       |
| Settling time [ms]            | 32        |

### Outputs

|                     |        |
|---------------------|--------|
| Short-circuit proof | yes    |
| Code                | binary |

### Measuring/setting range

|            |                                      |
|------------|--------------------------------------|
| Resolution | 4096 steps; 4096 revolutions; 24 bit |
|------------|--------------------------------------|

### Accuracy / deviations

|               |               |
|---------------|---------------|
| Repeatability | ± 0,001 % FSO |
|---------------|---------------|

### Software / programming

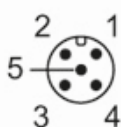
|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| Parameter setting options | CAN parameter; scaling; preset; Baud rate; direction of rotation; Node ID |
|---------------------------|---------------------------------------------------------------------------|

# RMS005



## Draw wire encoder

DRAW WIRE ENCODER

| Interfaces                                                                                     |                                                                                        |                                    |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------|
| Communication interface                                                                        | CAN                                                                                    |                                    |
| Protocol                                                                                       | CANopen                                                                                |                                    |
| Factory settings                                                                               | Baud rate: 125 kBit/s                                                                  |                                    |
|                                                                                                | node ID: 32                                                                            |                                    |
| Version                                                                                        | DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0                                              |                                    |
| Operating conditions                                                                           |                                                                                        |                                    |
| Ambient temperature                                                                            | [°C]                                                                                   | -20...80                           |
| Storage temperature                                                                            | [°C]                                                                                   | -20...80                           |
| Max. relative air humidity                                                                     | [%]                                                                                    | 95; (condensation not permissible) |
| Protection                                                                                     | IP 64; (on the housing: IP 65)                                                         |                                    |
| Tests / approvals                                                                              |                                                                                        |                                    |
| MTTF                                                                                           | [years]                                                                                | 240                                |
| Mechanical data                                                                                |                                                                                        |                                    |
| Weight                                                                                         | [g]                                                                                    | 3684.5                             |
| Materials                                                                                      | housing: steel; wire drum: aluminium; plastics; wire: stainless steel polyamide coated |                                    |
| Max. measuring length                                                                          | [mm]                                                                                   | 10000                              |
| Wire drum circumference                                                                        | [mm]                                                                                   | 315                                |
| Wire diameter                                                                                  | [mm]                                                                                   | 1                                  |
| Wire connection                                                                                | Ø 20,2 mm; (eyelet)                                                                    |                                    |
| Wire properties                                                                                | max. speed of wire displacement                                                        | [m /s] 2                           |
|                                                                                                | max. wire acceleration                                                                 | [g] 6                              |
|                                                                                                | max. extension force                                                                   | [N] 21                             |
|                                                                                                | max. retraction force                                                                  | [N] 8                              |
| Displays / operating elements                                                                  |                                                                                        |                                    |
| Display                                                                                        | readiness for operation                                                                | LED, green                         |
|                                                                                                | Operating mode                                                                         | LED, green flashing                |
|                                                                                                | fault                                                                                  | LED, red flashing                  |
| Electrical connection                                                                          |                                                                                        |                                    |
| Connector: 1 x M12, can be used radially; coding: A                                            |                                                                                        |                                    |
| <div></div> |                                                                                        |                                    |
| 1 CAN_GND                                                                                      |                                                                                        |                                    |
| 2 VBBc                                                                                         |                                                                                        |                                    |
| 3 GND (PE)                                                                                     |                                                                                        |                                    |
| 4 CAN_High                                                                                     |                                                                                        |                                    |
| 5 CAN_Low                                                                                      |                                                                                        |                                    |