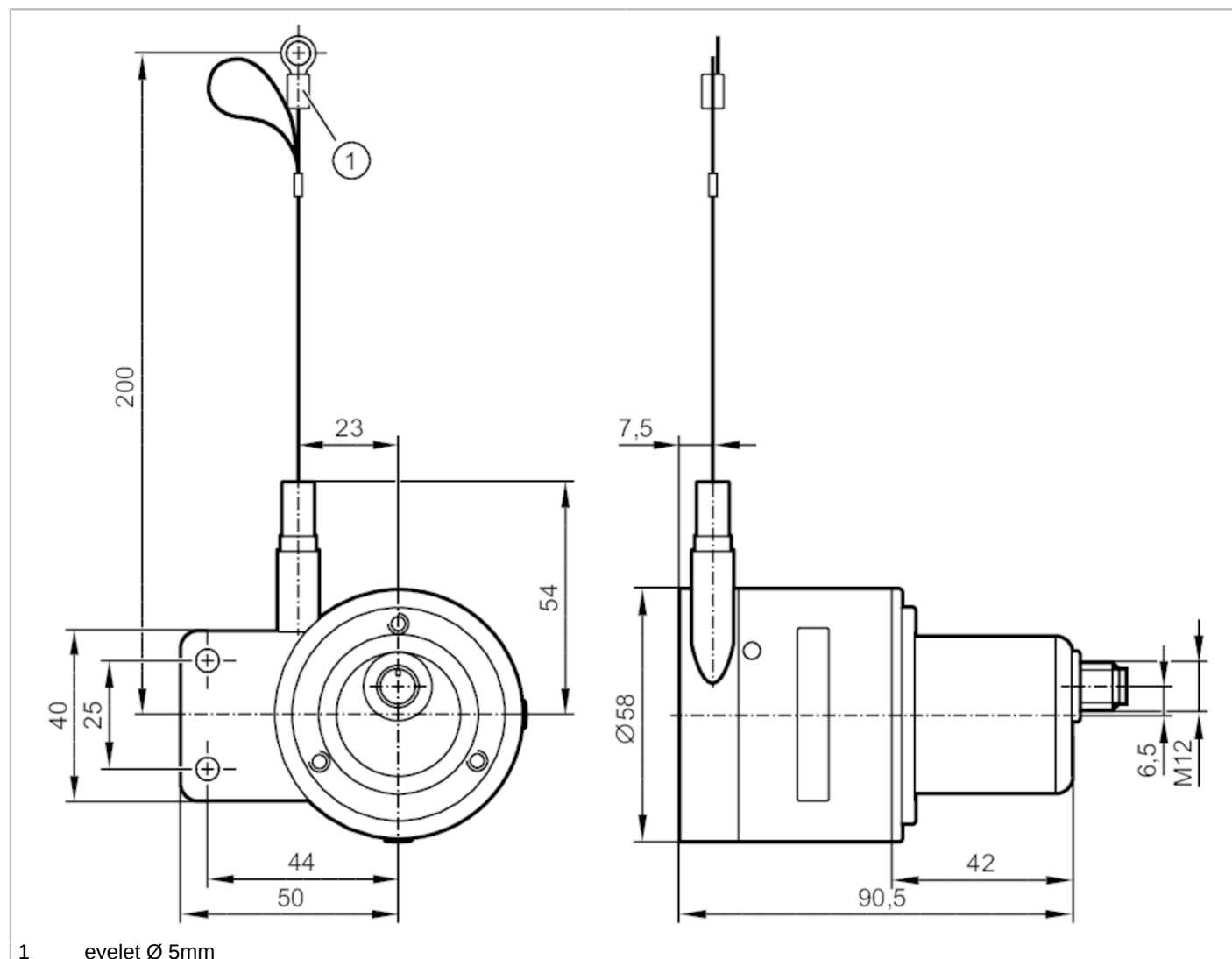


# RMS001



## Draw wire encoder

DRAW WIRE ENCODER



1 eyelet Ø 5mm



### Product characteristics

|            |                                    |
|------------|------------------------------------|
| Resolution | 8192 steps; 16 revolutions; 17 bit |
|------------|------------------------------------|

### Application

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

### Electrical data

|                             |      |           |
|-----------------------------|------|-----------|
| Operating voltage           | [V]  | 8...32 DC |
| Current consumption         | [mA] | < 20      |
| Protection class            |      | III       |
| Reverse polarity protection |      | yes       |
| Max. power-on delay time    | [ms] | 500       |
| Settling time               | [ms] | 32        |

### Inputs / outputs

|                              |                               |
|------------------------------|-------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 |
|------------------------------|-------------------------------|



## Draw wire encoder

DRAW WIRE ENCODER

| Outputs                    |                                                                              |                                    |     |
|----------------------------|------------------------------------------------------------------------------|------------------------------------|-----|
| Number of analogue outputs | 1                                                                            |                                    |     |
| Analogue current output    | [mA]                                                                         | 4...20                             |     |
| Max. load                  | [Ω]                                                                          | 500                                |     |
| Precision analogue output  | [%]                                                                          | 0,1                                |     |
| Short-circuit protection   | yes                                                                          |                                    |     |
| Measuring/setting range    |                                                                              |                                    |     |
| Resolution                 | 8192 steps; 16 revolutions; 17 bit                                           |                                    |     |
| Accuracy / deviations      |                                                                              |                                    |     |
| Accuracy                   | ± 0.02 % FSO                                                                 |                                    |     |
| Repeatability              | ± 0,006 % FSO                                                                |                                    |     |
| Software / programming     |                                                                              |                                    |     |
| Parameter setting options  | start position; end position; central position                               |                                    |     |
| Operating conditions       |                                                                              |                                    |     |
| Ambient temperature        | [°C]                                                                         | -40...85                           |     |
| Storage temperature        | [°C]                                                                         | -40...85                           |     |
| Max. relative air humidity | [%]                                                                          | 95; (condensation not permissible) |     |
| Protection                 | IP 64; (on the housing: IP 65)                                               |                                    |     |
| Tests / approvals          |                                                                              |                                    |     |
| MTTF                       | [years]                                                                      | 241                                |     |
| Mechanical data            |                                                                              |                                    |     |
| Weight                     | [g]                                                                          | 561                                |     |
| Housing                    | cylindrical                                                                  |                                    |     |
| Dimensions                 | [mm]                                                                         | Ø 58 / L = 90.5                    |     |
| Materials                  | housing: steel; wire drum: aluminium; wire: stainless steel polyamide coated |                                    |     |
| Max. measuring length      | [mm]                                                                         | 1900                               |     |
| Wire drum circumference    | [mm]                                                                         | 150                                |     |
| Wire diameter              | [mm]                                                                         | 0.45                               |     |
| Wire connection            | Ø 5 mm; (eyelet)                                                             |                                    |     |
| Wire properties            | max. speed of wire displacement                                              | [m /s]                             | 2   |
|                            | max. wire acceleration                                                       | [g]                                | 12  |
|                            | max. extension force                                                         | [N]                                | 5   |
|                            | max. retraction force                                                        | [N]                                | 3,5 |
| Remarks                    |                                                                              |                                    |     |
| Pack quantity              | 1 pcs.                                                                       |                                    |     |

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### Electrical connection

Connector: 1 x M12, for axial use; coding: A



- 1 L+
- 2 analogue output
- 3 L-
- 4 Set2
- 5 Set1