Special Encoder & Sensors

Encoder assemblies with cable-pull

Incremental & absolute - cable pulls up to 50 m measuring length



Encoder with cable-pull

Features

- Absolute and incremental encoders with cable-pulls
- Measuring length up to 50 m
- High linearity of typical ±0.02 % of the measuring range
- Complete assemblies of encoder and cable-pull
- Cable made of highly flexible stainless steel cores

Technical data - cable-pull

Materials Housing: Aluminium
Cable: Stainless steel, polyamide-coated

Temperature range -20...+80 °C

Protection per IEC60529 IP 50 (cable-pull)

Service life approx. 3000 mm: 5 million strokes

5000 mm - 50000 mm: 1 million strokes

Length	Weigth	Distance/rev.	Cable acceleration	Pull-out force	Pull-in force	Cable ø	Linearity
3000 mm	1.1 kg	260.09 mm	Max. 70 m/s ²	Max. 10 N	Min. 5.5 N	0.8 mm	±0.02%
5000 mm	1.4 kg	315.07 mm	Max. 50 m/s ²	Max. 16 N	Min. 4 N	1.0 mm	±0.01-0.02%
7500 mm	1.7 kg	315.07 mm	Max. 60 m/s ²	Max. 21 N	Min. 8.5 N	1.0 mm	±0.01-0.02%
10000 mm	2.5 kg	315.07 mm	Max. 30 m/s ²	Max. 21 N	Min. 5.5 N	1.0 mm	±0.01-0.02%
15000 mm	2.7 kg	315.07 mm	Max. 30 m/s ²	Max. 25 N	Min. 5 N	1.0 mm	±0.01-0.02%
30000 mm	9.5 kg	500.00 mm	Max. 20 m/s ²	Max. 22 N	Min. 12 N	0.8 mm	±0.01%
40000 mm	10.5 kg	500.00 mm	Max. 20 m/s ²	Max. 22 N	Min. 11 N	0.8 mm	±0.01%
50000 mm	11 kg	500,00 mm	Max. 20 m/s ²	Max. 24 N	Min. 11 N	0.8 mm	±0.01%

Encoders with cable-pulls <3000 mm lenght upon request. Technical encoder data: See encoder product sheet.



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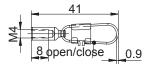
Ordering part number

The respective ordering part number of encoder with cablepull assembly is defined after receipt of order.

Example: GM401.E26 = encoder GM401.120A102 (SSI, gray code, 12x12 bit, 10...30 VDC) with cable-pull assembly, 15000 mm cable length.

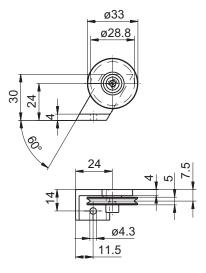
Accessories

Z 119.060 Snap hook for cable-pulls of 3000 mm length

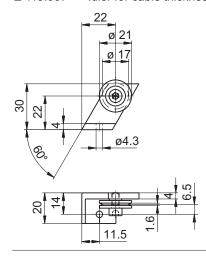




Z 119.065 Idler for cable thickness 0.8...1 mm



Z 119.067 Idler for cable thickness max. 0.5 mm





The appropriate encoder for system solutions

All current encoder designs with 58 mm housing offered in our wide range on absolute and incremental encoders are compatible to the cable-pull of your choice.

Incremental encoders

- Impulse numbers up to 80.000
- Rotation speeds up to 10.000 rpm
- Supply voltage 5 VDC or 4.75...30 VDC
- Capable of extreme temperatures -20...+100 °C

Absolute encoders

- Single or multiturn
- Resolution up to 36 bit
- Rotation speeds up to 10.000 rpm
- Extremely high mechanical immunity against shock 2000 m/s², vibrations 100 m/s²
- Capable of extreme temperatures -20...+85 °C
- Programmable

These absolute encoders can be varied with all current fieldbus interfaces:













3.12.2009 Subject to modification in technic and design. Errors and omissions exce

Special Encoder & Sensors

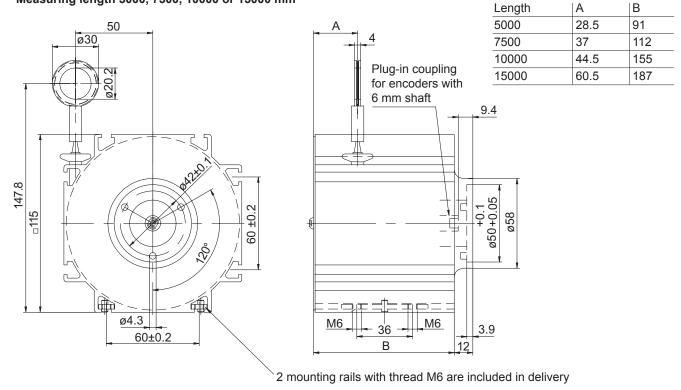
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Dimensions Measuring length 3000 mm Length 3000 41.4 M4 ø13 28 for hollow shaft encoders ø12 mm ø12h8 M4 x 6 (4x) 96 ø73 89ø M3 x 6 (4x) 70 M6 M6 96 36 24 56 2 mounting rails with thread M6 are included in delivery

Dimensions





03.12.2009 Subject to modification in technic and design. Errors and omissions excepted.

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