## Draw-wire encoder A30 | Compact-Line | Measuring length max. 0.6 m



**The draw-wire mechanics A30 with analog output stands out with its miniaturized design. It is available with potentiometer, voltage or current output.**

RoHS

Analog output




Wide temperature range | High protection level | Reverse polarity protection | Easy mounting | Compact design

### Miniaturized and simple

- Measuring length up to 600 mm.
- For applications with a low traversing speed.
- Easy to install.
- Housing of reinforced plastic.
- Not suitable for shock or vibration exposure.

### Order code draw-wire encoder

| D5.350 | X | . | A | XX | X | . | 0000 |
|---|---|---|---|---|---|---|---|
| Type | a | | | b | c | | |

**a** *Measuring range*
A = 300 mm [1]
B = 600 mm

**b** *Output circuit*
11 = analog output 4 ... 20 mA
22 = analog output 0 ... 10 V DC
supply voltage 15 ... 28 V DC
33 = potentiometer output 10 kΩ

**c** *Type of connection*
4 = radial cable, 0.5 m [1.64']

***Stock types***
**D5.350B.A114.0000**

### Accessories for draw-wire encoder

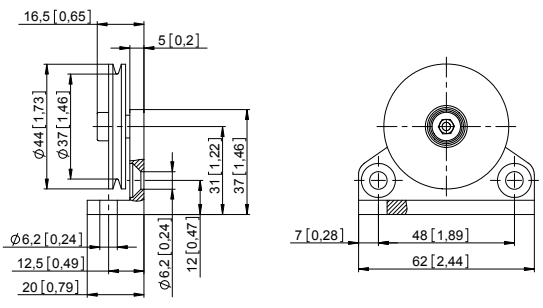
Dimensions in mm [inch] | Order no.

**Guide pulley** — **8.0000.7000.0045** [2]



Technical data:
- mounting bracket (anodized alum.)
- guide pulley (plastic POM)
- ball bearing (type 696-2R5)

Scope of delivery:
- 2 x countersunk screws for lateral fixing
- 2 x hexagonal screws for fixing on a flat surface




1) Not suitable for potentiometer output / order code b output circuit = 33.
2) Stock types.

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## Technical data

### Mechanical characteristics (draw-wire mechanics)

| | | |
|---|---|---|
| **Speed** max. | | 0.8 m/s |
| **Acceleration** max. | | 32.3 m/s² |
| **Working temperature** | | -10 °C ... +80 °C [+14 °F ... +176 °F] |
| **Protection** acc. to EN 60529 | | IP50 |
| **Weight** | | approx. 60 g [2.12 oz] |
| **Extension force $F_{min}$** | | 3 N |
| **Repeat accuracy** | | ±0.15 mm |
| **Linearity** | | ±0.35 % |
| **Material** | housing | plastic |
| | wire | stainless-steel ø 0.4 mm<br>plastic-coated |

### Approvals

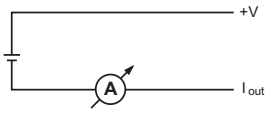
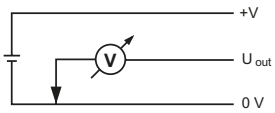
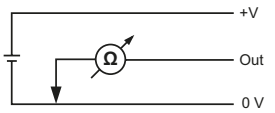
**CE compliant** in accordance with

| | |
|---|---|
| EMC Directive | 2014/30/EU |
| RoHS Directive | 2011/65/EU |

### Electrical characteristics

| | | | |
|---|---|---|---|
| **Analog output** | 0 ... 10 V DC | 4 ... 20 mA | potentiometer 10 kΩ |
| **Supply voltage** | 15 ... 28 V DC | – | – |
| **Operating range** | – | 15 ... 28 V DC | max. 48 V DC |
| **Max. load current** | 15 mA | – | – |
| **Load** | – | max. 500 Ω | – |

### Terminal assignment (analog output)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analog sensor **A11** (4 ... 20 mA) | | | R/I converter | | | |  |
| | | Signal: | +V | $I_{out}$ | n.c. | | |
| | Cable | Core color: | BN | WH | GN | | |
| | | | | | | | |
| Analog sensor **A22** (0 ... 10 V DC) | | | R/U converter | | | |  |
| | | Signal: | +V | 0 V | $U_{out}$ | | |
| | Cable | Core color: | BN | WH | GN | | |
| | | | | | | | |
| Analog sensor **A33** (Potentiometer 10 kΩ) | | | Potentiometer | | | |  |
| | | Signal: | +V | 0 V | Out | | |
| | Cable | Core color: | BN | WH | GN | | |
| | | | | | | | |


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## Dimensions

Dimensions in mm [inch]

