

# Linear measuring technology

<b>Draw-wire encoder A30</b>	<b>Compact-Line</b>	<b>Measuring length max. 0.6 m</b>
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The draw-wire mechanics A30 with analog output stands out with its miniaturized design. It is available with potentiometer, voltage or current output.



Analog output



Wide temperature range



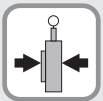
High protection level



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.

**Order code** **D5.350X.AXXX.0000**  
**draw-wire encoder** Type **a** **b** **c**

**a** Measuring range  
 A = 300 mm<sup>1)</sup>  
 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']

## Accessories for draw-wire encoder Dimensions in mm [inch]

Order no.

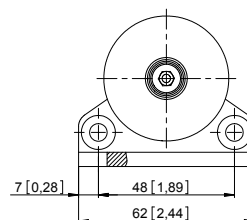
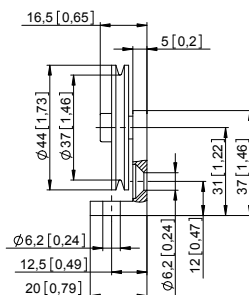
### Guide pulley



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

**8.0000.7000.0045**



1) Not suitable for potentiometer output / order code **b** output circuit = 33.

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## Technical data

Mechanical characteristics (draw-wire mechanics)							
<b>Speed max.</b>	0.8 m/s						
<b>Acceleration max.</b>	32.3 m/s <sup>2</sup>						
<b>Working temperature</b>	-10 °C ... +80 °C [+14 °F ... +176 °F]						
<b>Protection acc. to EN 60529</b>	IP50						
<b>Weight</b>	approx. 60 g [2.12 oz]						
<b>Extension force F<sub>min</sub></b>	3 N						
<b>Repeat accuracy</b>	±0.15 mm						
<b>Linearity</b>	±0.35 %						
<b>Material</b>	<table border="0" style="width: 100%;"> <tr> <td style="padding-right: 10px;">housing</td> <td>plastic</td> </tr> <tr> <td>wire</td> <td>stainless-steel ø 0.4 mm</td> </tr> <tr> <td></td> <td>plastic-coated</td> </tr> </table>	housing	plastic	wire	stainless-steel ø 0.4 mm		plastic-coated
housing	plastic						
wire	stainless-steel ø 0.4 mm						
	plastic-coated						

Approvals		
<b>CE compliant</b> in accordance with		
EMC Directive	2014/30/EU	
RoHS Directive	2011/65/EU	
<b>UKCA compliant</b> in accordance with		
EMC Regulations	S.I. 2016/1091	
RoHS Regulations	S.I. 2012/3032	

Electrical characteristics			
<b>Analog output</b>	0 ... 10 V DC	4 ... 20 mA	potentiometer 10 kΩ
<b>Supply voltage</b>	15 ... 28 V DC	–	–
<b>Operating range</b>	–	15 ... 28 V DC	max. 48 V DC
<b>Max. load current</b>	15 mA	–	–
<b>Load</b>	–	max. 500 Ω	–

### Terminal assignment (analog output)

Analog sensor <b>A11</b> (4 ... 20 mA)			R/I converter				
			Signal:	+V	I <sub>out</sub>	n.c.	
			Cable	Core color:	BN	WH	
Analog sensor <b>A22</b> (0 ... 10 V DC)			R/U converter				
			Signal:	+V	0 V		U <sub>out</sub>
			Cable	Core color:	BN		WH
Analog sensor <b>A33</b> (Potentiometer 10 kΩ)			Potentiometer				
			Signal:	+V	0 V		Out
			Cable	Core color:	BN		WH

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**Compact-Line**

**Measuring length max. 0.6 m**

**Dimensions**

Dimensions in mm [inch]

