

Linear measuring technology

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



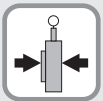
High protection level



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 mm¹⁾
 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.

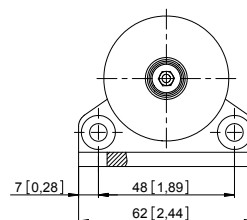
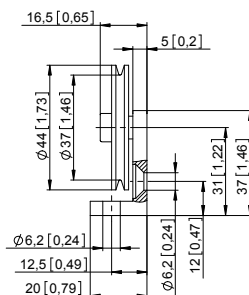
Guide pulley



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)	
Speed max.	0.8 m/s
Acceleration max.	32.3 m/s ²
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 plastic-coated

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

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]

