Draw wire mechanics with analogue sensor

Draw wire encoder A30

Measuring length max. 0.6 m
Traverse speed max. 0.8 m/s

The draw wire mechanics A30 with analogue output stands out with its miniaturised design. It is available with potentiometer, voltage or current output.

Miniaturised and simple

- Measuring length up to 600 mm.
- For applications with a low traversing speed.
- Easy to install.

Order code draw wire encoder

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

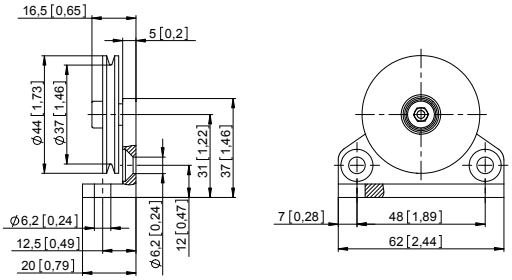
ⓐ *Measuring range*
A = 300 mm [1)]
B = 600 mm

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

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

Guide pulley for draw wire encoder

Order no.



Order code for the set:
- Guide pulley (anodised aluminium)
- 2 x countersunk screws for lateral fixing
- 2 x hexagonal screws for fixing on a flat surface

8.0000.7000.0045

1) Not suirable for potentiometer output.

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Technical data

Mechanical characteristics (draw wire mechanics)

Speed max.		0.8 m/s
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

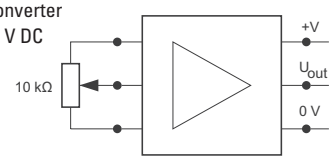
Electrical characteristics

Analogue output	0 ... 10 V DC	4 ... 20 mA	potentiometer 10 kΩ
Power supply	15 ... 28 V DC	–	–
Operating range	–	15 ... 28 V DC	max. 48 V DC
Max. load current	15 mA	–	–
Load	–	max. 500 Ω	–
Temperature range	-10°C ... +80°C [+14°F ... +176°F]		
CE compliant acc. to	EMC guideline 2014/30/EU RoHS guideline 2011/65/EU		

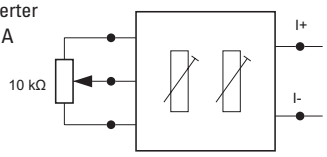
Terminal assignment

Colour	BN	WH	GN
0 ... 10 V DC	+ 24 V DC	0 V	U_{out}
4 ... 20 mA	+I	-I	n.c.
Potentiometer	Po	Pe	S

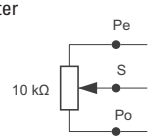
R/U converter
0 ... 10 V DC



R/I converter
4 ... 20 mA

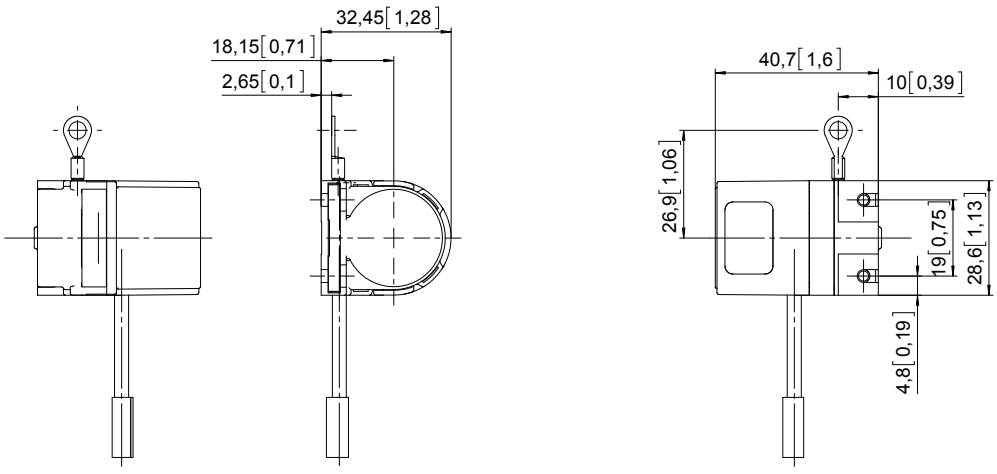


Potentiometer



Dimensions

Dimensions in mm [inch]



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