

Linear Position Technology

Draw Wire

Mini Draw Wire Encoder, Analog Output



Magnetic field proof

Rugged

- Reinforced plastic housing (1m wire).
- Stainless steel cable
- Zinc die cast housing (2m wire).



Compact

- Measuring length up to 2,000 mm.
- 40 x 40 x 58 mm housing (1 m wire).
- 40 x 40 x 72.3 mm housing (2m wire).

Versatile

- Simple processing of analog signal by means of a digital panel meter.
- Voltage or current output.
- Radial or axial cable exit.
- Analog outputs 4-20 mA, 0-10 V or resistance.

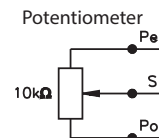
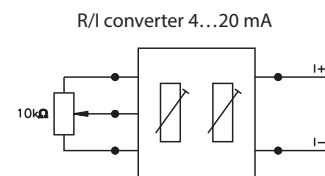
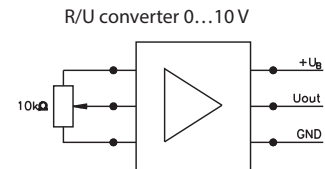
Mechanical Characteristics of the Draw-Wire Encoder:

Measuring range:	up to 2,000 mm		
Absolute accuracy:	±0.35 % for the whole measuring range		
Repetition accuracy:	±0.15 mm per direction of travel		
Resolution:	analog output signal		
	1 m ⇒ 0-10 V	2 m ⇒ 0-10 V	
	1 m ⇒ 4-20 mA	2 m ⇒ 4-20 mA	
	1 m ⇒ 0-10 kΩ	2 m ⇒ 0-10 kΩ	
Traversing speed:	max. 2.62 ft/s (800 mm/s)		
Required force:	approx. 2.25 lbs (10 N) (on wire)		
Material:	Housing: reinforced plastic (1 m), Zinc die cast (2 m) Wire: stainless steel Ø 0.45 mm, plastic coated		
Weight:	approx. 0.463 lbs (0.210 kg) for 1m wire; 0.705 lbs (0.320 kg) for 2m wire		

Electrical Characteristics:

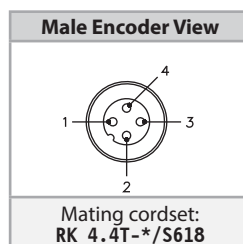
Analog output [Key Code]:	0-10 V [8C]	4-20 mA [7E]	Potentiometer 10 kΩ [PB]
Supply voltage:	15-28 VDC	15-28 VDC	-
Temperature range:	+32 to +122°F (0 to +50°C)	+32 to +122°F (0 to +50°C)	+32 to +122°F (0 to +50°C)
Load:	max 500Ω	max 500 Ω	-

Electrical Connections:



Part Number	Description
DW1000-55-7F-CA	1 meter range, 4-20 mA
DW1000-55-8D-CA	1 meter range, 0-10 V
DW1000-55-PB-CA	1 meter range, Pot. 10 kΩ
DW2000-55-7F-C	2 meter range, 4-20 mA
DW2000-55-8D-C	2 meter range, 0-10 V
DW2000-55-PB-C	2 meter range, Pot. 10 kΩ

Wiring Diagram:



* Length in meters.

Standard Wiring:

Color	WH	BN	GN
Pin M12	2	1	3/BU
4-20 mA	*-I	+I	N/C
0-10 VDC	GND	15-28 V	V _{out}
Pot. 10 kΩ	Pe, end position	Po, start position	Wiper contact

* Loop powered

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Part Number Key: DW55

A	B		C		D		E
DW	1000	-	55	-	7F	-	CA

A	Type
DW	Draw Wire

B	Measuring Range
1000	1m Steel Wire, IP50
2000	2m Steel Wire, IP65

C	Housing
55	40mm

D	Voltage Supply and Output Type
7F	15-28 VDC, 4-20 mA
8D	15-28 VDC, 0-10 V
PB	40 VDC max, 10 kΩ, Potentiometer

E	Type of Connection
H1141	Radial 4-pin M12 euromat ® Connector ¹⁾
C	Radial Cable (2m PVC) ¹⁾
CA	Axial Cable (2m PVC) ²⁾

¹⁾ Only Available with Measuring Range '2000'
²⁾ Only Available with Measuring Range '1000'

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Accessories:

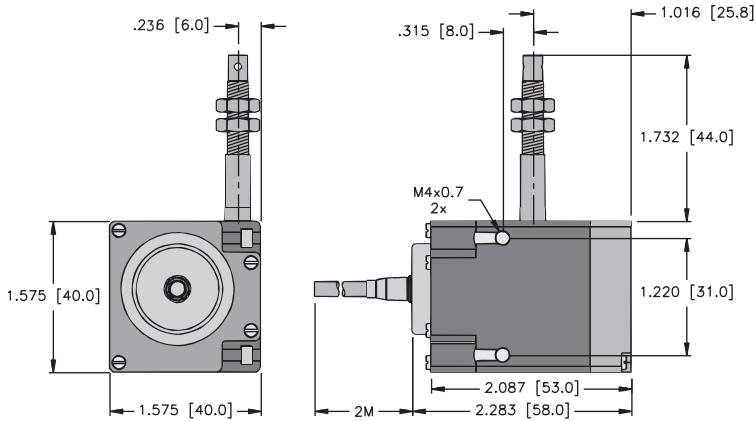
- See page J1, Connectivity, for cables and connectors

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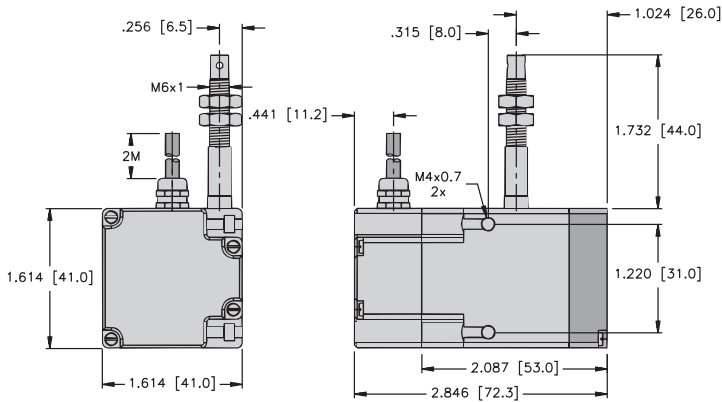
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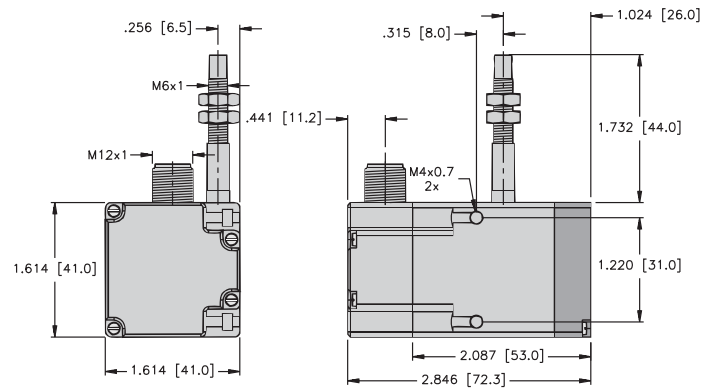
Dimensions: DW1000-55--CA**



Dimensions: DW2000-55--C**



Dimensions: DW2000-55--H1141**



Draw Wire Encoder Accessories

<p>Part Number: 8.0000.7000.0033</p> <p>Description: 2 meter steel wire extension</p>	<p>Part Number: 8.0000.7000.0034</p> <p>Description: 5 meter steel wire extension</p>		<p>Part Number: 8.0000.7000.0045</p> <p>Description: Guide pulley</p>	
<p>Part Number: 8.0000.7000.0032</p> <p>Description: 2 meter para wire extension</p>	<p>Part Number: 8.0000.7000.0035</p> <p>Description: 10 meter steel wire extension</p>			

Accessories:

- See page J1, Connectivity, for cables and connectors