

DWS1820

DRAW WIRE ENCODER
SYSTEM

- Heavy Duty Construction
- Easy to Mount
- Range of Encoder Mounting Options
- Measure up to 20 meter length
- Incremental or Absolute Measurements
- High Flex Stainless Steel Wire



MECHANICAL SPECIFICATIONS

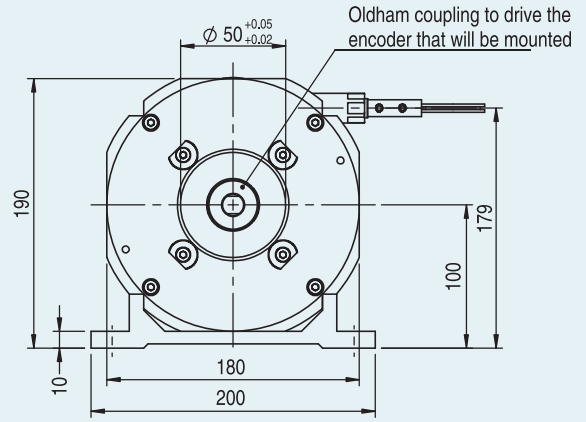
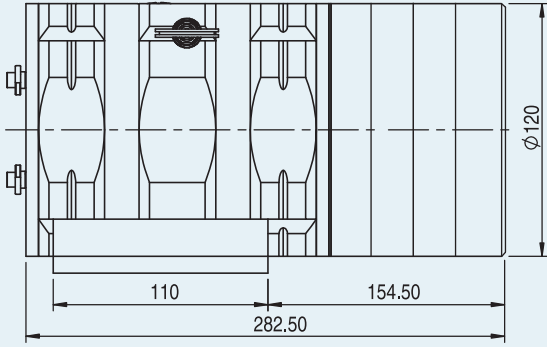
Body	Aluminum
Cable	Stainless Steel
Drum Circumference	500 mm/turn
Measurement Length	0 mm to 20,000 mm
Cable Diameter	0.90 mm
Linearity (Standard)	+/-0.05% fs
Linearity (Optional)	+/-0.01% fs
Velocity(Max)	10 m/s
Acceleration(Max)	5 m/s (before cable deformation)
Operating Temp.	-20°C to +80°C
Storage Temp.	-30°C to +80°C
Weight	15 kg

ORDERING CODE

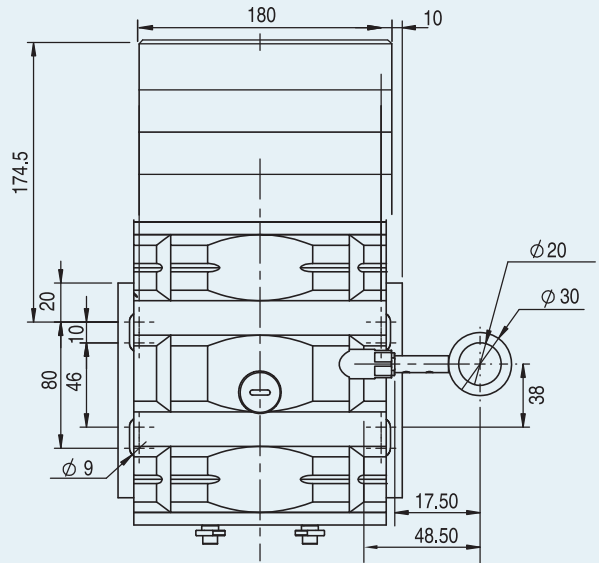
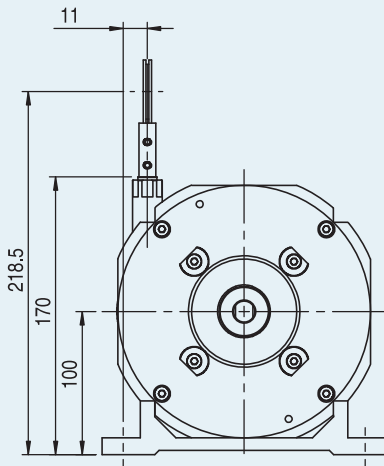
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a b c d e f g h Encoder Resolution

<p>a Group Function DWS=Draw Wire System</p>	<p>e Measurement Type I=Incremental Encoder B=Absolute Encoder - Binary Code G=Absolute Encoder - Gray Code</p>
<p>b Basic Series Number 1210</p>	<p>f Connection Type 0=Cable (2 meter), 7=12 Pin</p>
<p>c Measurement Length 025=2500 mm, 050=5000 mm 060=6000 mm, 200=20000 mm</p>	<p>g Output Signals 3=A+B+Z 6=A+B+Z+Complementary J=Binary Code - SSI Y=Gray Code - SSI</p>
<p>d Linearity 0=+/- 0.05% full scale (standard)</p>	<p>h Output Circuit Type 1=Push-Pull 5 Vdc 3=Push-Pull 4,75 to 30 Vdc 5=Push-Pull 8 to 30 Vdc F=SSI 5 Vdc G=SSI 10 to 30 Vdc</p>

Notes:
To determine encoder resolution use the following formula:
Drum Circumference / Resolution (mm) = Encoder PPR



Oldham coupling to drive the encoder that will be mounted



CONNECTIONS FOR INCREMENTAL ENCODERS

Function	Cable Colour Code	12 Pin Connector
0 Volt	white	1
+ Volt	brown	2
A	green	3
B	yellow	4
Z	grey	5
\bar{A}	pink	6
\bar{B}	blue	7
\bar{Z}	red	8

CONNECTIONS FOR SSI ABSOLUTE ENCODERS

Function	Cable Color Code	12 Pin Connector
GND	WHITE	1
+ Vcc	BROWN	2
SSI Clock +	GREEN	3
SSI Clock -	YELLOW	4
SSI Data +	GREY	5
SSI Data -	PINK	6
Reset/Preset	BLUE	7
Direction Setting	RED	8