



Direct Replacement Encoders

ENCODER.COM • 1-800-366-5412

Direct Replacement Encoders

DR857

AMS Controls incremental optical encoders

- Standard 3 inch round encoder body
- 0256, 0500, 1000, 2000, and 4000 * CPR available
- 3/8" Shaft made of 303 Stainless Steel
- 5V Line Driver output
- End-mount 10-pin MS connector
- Precision ABEC ball bearings
- IP66 sealing
- Price adder for 4000 CPR



DR21R

Renco RCH20D

- Highly customized, Direct Replacement Encoder with a unique, OEM-specific ABS stepped voltage output channel.
- DR21R configurations replace select Renco RCH20D and RHS25D models originally installed on legacy F, H, W, N and HSM servo motor models.
- Line Driver output with ABS stepped voltage output
- Quadrature with index
- 5 VDC Input Voltage
- End mount 16-pin header connection
- Operating temperature up to 100°C



DR011

BEI EX152

- For encoder commonly used on postal sorting equipment, baggage systems, and packaging/conveying equipment
- Includes attached cable for easy installation (no soldering wires to a circuit board required)
- Improved sealing for a longer life with increased protection



DR735

Heidenhain* ROD320

- Meets or exceeds all OEM specifications
- Provides precision feedback control for Siemens* 1FT Series Simodrive* motors
- Features an improved "Stay In Place" tapered shaft
- Offers custom flex mount
- 5 different resolution options, from 1000 to 5000 CPR
- 9" of cable
- 17 pin connector with the correct Heidenhain pinout



Direct Replacement encoders are designed as drop-in replacements for encoders commonly found in the industrial marketplace. If you don't see an exact replacement on the cross reference chart below, please submit a request at encoder.com/cross-reference.

Encoder Model	EPC Direct Replacement
BEI EX152	DR011
DRC 29L	DR651
Dynapar H23 for Magnatek Motors	DR580
Dynapar Rotoulsar 60	DR553
Heidenhain ROD320	DR735
Microcut Controller	DR274
Quantum ATL 3000	DR425
Renco RCH20D	DR21R
Siemens 1XP8001	DR686
Videojet Printers	DR323

DR86A

Replaces a wide range of machine tool encoders

- Employs reliable Opto-ASIC technology
- Extra heavy duty unit mounted within a rugged mechanical housing
- Offers heavy duty sealed bearings, together with double O-ring sealing



DR274

Microcut Controller-Perfecta Printing Presses

- Encoder for Perfecta USA manufactured printing presses that use the Microcut Controller ("Microcut" uses the encoder EPC supplied to Goldengate Microsystems)
- Often used as backstop gauges in the printing and binding industry
- With the female RJ45 connector, no installation – just plug in



DR323

Videojet Printers

- Used on legacy Marsh Videojet printers
- Included in kit sold by Videojet for Patriot Plus, Overture, Encore, and M8000 ink jet printers



DR553

Dynapar Rotopulser Model 60

- Used on ink jet printers, cut-to-length applications, motor drive speed feedback, and a variety of other applications.



DR580

Dynapar H23 on Magnetek Vector/Invertor Motors

- Available with CPRs of 1024 or 2048
- Heavy duty, rugged industrial encoder capable of withstanding higher temperatures and shock than the Dynapar H23
- Offers body mount or in-line connector option for a simple direct fit installation



DR651

DRC 29L

- Heavy duty, rugged 2.0" encoder designed for harsh industrial environments such as machine tools and robotics
- Can withstand 80 lb axial load, 60 lb radial load, and 75 g of shock, as compared to the DRC 29L's 30 lbs of load and 50 g of shock



DR686

Siemens* 1XP8001

- Unique threaded shaft is a standard order
- Either 1024 or 2048 CPR
- 12 pin connector at the end of 18" of cable



DR738

Direct replacement for 444 Tach Style encoders Price adder for some configuration options. See blue options, below.

- Provides a digital encoder signal format to replace traditional Tacho style feedback devices
- Heavy duty bearings and mechanical assembly, perfect for applications requiring a rugged and dependable encoder
- Replaces encoders from Hubner, Baumer, Tekel, etc.
- Domestic sourcing provides fast delivery, technical support, and repair services



DR738	N	51	S	1000	R	HV	1	Y	2	E	X	N	CE
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Model DR738
444 Tach

Operating Temperature
S 0° to 70° C
H 0° to 100° C¹

Output Type
5 - 28V In/Out³
OC Open Collector
PU Pull-Up Resistor
PP Push-Pull
HV Line Driver⁴
8 - 28V In/5V Out^{5,6}
H5 Line Driver⁴
P5 Push-Pull

Mounting
Y 444 Tach

Connector Location
S Side
E End

Mating Connector
N No
Y Yes
6-pin MS Style
7-pin MS Style
10-pin MS Style
9-pin D-sub

Cycles Per Revolution
1-30,000
See CPR Options for available resolutions.
Price adder for CPR >1270
1271-3000
3001-5000
5001-6000
6001-10,000
10,001-18,000
18,001-24,000
24,001-30,000

Seal
2 IP64

Certification
N None
CE CE marked¹⁰

Shaft Size
51 11 mm keyway
52 12 mm keyway

Maximum Frequency
1 Standard 100 kHz
2 200 kHz - \$19
5 250 kHz, >3000 CPR
3 500 kHz, >6000 CPR⁷
4 1 MHz, >10,000 CPR⁷

Connector Type⁸
W 6-pin MS Style
Y 7-pin MS Style
X 10-pin MS Style
9D 9-pin D-subminiature
J 5-pin M12 (12 mm)
K 8-pin M12 (12 mm)
G Gland, 24" Cable⁹

Number of Channels²
A Channel A
Channel A Leads B
Q Quadrature A & B
R Quadrature A & B with Index
Channel B Leads A
K Reverse Quadrature A & B
D Reverse Quadrature A & B with Index

MODEL DR738 CPR

0001*	0002*	0004*	0005*	0006*	0007*	0008*	0010*	0011*	0012*	0014*
0020	0021*	0024*	0025*	0028*	0030*	0032*	0033*	0034*	0035*	0038*
0040*	0042*	0045*	0050*	0060	0064*	0100	0120	0125	0128*	0144*
0150*	0160*	0200	0240*	0250	0254*	0256*	0300	0333*	0360	0400
0500	0512	0600	0625*	0635	0665*	0720	0768*	0800	0889	0900*
1000	1024	1200	1201**	1203**	1204**	1250*	1270*	1440	1500	1800
2000	2048	2400a	2500	2540*	2880*	3000*	3600*	4000*	4096*	5000*
6000*	7200*	7500*	9000*	10,000*	10,240*	12,000*	12,500*	14,400*	15,000*	18,000*
20,000*	20,480*	25,000*	30,000*							

* Contact Customer Service for High Temperature Option.
** High Temperature Option (H) limited to 85° C maximum for these CPR options.

NOTES:
1 0° to 85° C for certain resolutions, see CPR Options.
2 Contact Customer Service for index gating options.
3 24 VDC max for high temperature options.
4 Line Driver not available with 5-pin M12 or 6-pin MS connector. Available with 7-pin MS connector only without Index Z.
5 Standard temperature, 60 to 3000 CPR only.
6 H5 and P5 outputs not available with CE option, or any End Mount MS Connector.
7 Standard cable lengths only. For details, please refer to Technical Bulletin TB-116: Noise and Signal Distortion Considerations at encoder.com.
8 For Mating Connectors, Cables, and Cordsets see Accessories at encoder.com.
9 For Non-Standard Cable Lengths add a forward slash (/) plus cable length expressed in feet. Example: SG/6 = 6 feet of cable.
10 Please refer to Technical Bulletin TB-100: When to Choose the CE Mark at encoder.com.

Get the Accu-Coder® Advantage

US-Based Since 1969

Encoder Products Company, Inc. (EPC) is a leading designer and manufacturer of motion feedback devices. Founded in the US in 1969, EPC's corporate headquarters are now housed in our 100,000 square foot, vertically-integrated main manufacturing facility in Sagle, Idaho, USA.

Quality You Can Rely On

At EPC, quality is designed into every product. Each product is fully tested against EPC's exacting quality standards. EPC is ISO 9001:2015 certified, and RoHS and WEEE compliant.

Outstanding Value

EPC's products are competitively priced and come with an industry-leading 3-year warranty*. It's not unusual to hear about EPC encoders still working after 30 or 40 years, or that have outlasted the equipment they are installed in.

**For products with a high-operating-temperature option, warranty is two years.*

Exceptional Customer Service

When you call EPC, you talk to real engineers and encoder experts who can answer your toughest motion feedback questions. We're here to answer your calls Monday through Friday, 5:00 am - 4:30 pm Pacific Time.

Fast Lead Times

EPC is known for our fast lead times. We can produce your custom encoders faster than most suppliers' standard products. Expedite options are available on many models. Contact us for specific lead times on your product.



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