

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Danaher / Dynapar / North Star SLIM Tach SL85* at our website: *Click HERE*

SERIES SL85

NorthStar™ brand

Bearingless Encoder

Key Features

- **Bearingless Design Mounts to 180 C-Face Motors**
- **Magneto-Resistive Technology Resists Dust, Dirt, Oil, Water, and Other Contaminants**
- **Dual-C-Face Versions Available for "Sandwich" Mounting**
- **Single or Dual Isolated Outputs Available**

CE EN 61326

RoHS



SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental
Pulses per Revolution: 64-2048
Phasing Sense: A leads B for Counter-Clockwise rotation (CCW) viewing encoder-mounted end
Quadrature Phasing: 90° ± 22°
Symmetry: 180° ± 54°
Index: 270°, ungated (optional gated to falling B edge)
Number of Output Modules: Single or Dual Redundant

ELECTRICAL

Input Power Requirements: 5-15 Volts DC, 45 mA typical per sensor module plus line driver load
Output Signals: Line Driver, 150mA source/sink
Frequency Response: 0 - 120kHz Data & Index
Electrical Immunity: 2kV ESD, Reverse Polarity, Short Circuit
Connector: 10 pin industrial duty latching, sealed NEMA 4 &12, IP65

MECHANICAL

Max: Shaft Speed: 5,000 RPM
Mounting Configuration: 8.5" 180C face mount for NEMA MG1 standards
Housing Material: Cast Aluminum
Acceleration Rate: 3600 rpm/sec max
Shaft Length Required: 1.0" min
Allowable Shaft End-Play: ± 0.050"
Allowable Shaft Runout: 0.003" TIR

ENVIRONMENTAL

Operating Temperature Range:
Standard: -40°C to +90°C
Extended: -40°C to +100°C
Storage Temperature Range: -40°C to +120°C
Humidity: to 98% RH (non-condensing)
Shock (Sensor Module): 1 meter drop test, 30 G's Min
Vibration: 18 G's @ 5-2000 Hz spectrum

ELECTRICAL CONNECTIONS

Signal	Connector Pin	Pigtail Cable	MS 3102E18-IT#
Common	1	Black	F
B	2	Green	B
A	3	Blue	A
Z *	4	Violet	C
No Connection	5	—	E
Vcc (5-15 VDC)	6	Red	D
$\overline{B}$	7	Yellow	I
$\overline{A}$	8	Gray	H
$\overline{Z}$ *	9	Orange	J
Shield	10	Braid	G

* Index (Z) optional. See Ordering Information

NorthStar™ brand SERIES SL85

Ordering Information

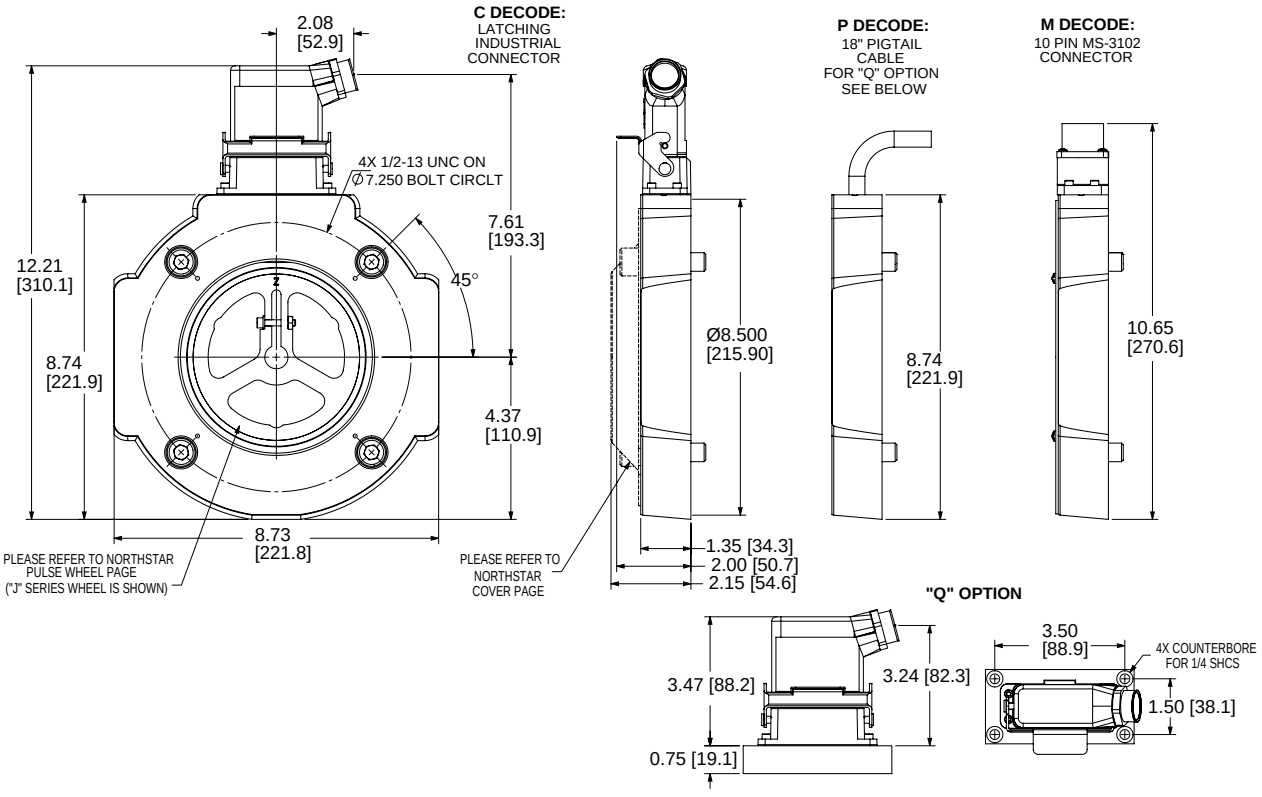
To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: PPR	Code 3: Index	Code 4: Wheel Bore	Code 5: Termination	Code 6: Electrical	Code 7: Cover/Adapter
□ 8	□□□□	□	□□□	□	□	□
Ordering Information						
S8 Motor Mount Ring, for 8 1/2" C-Face Motors (180C) Single Output **D8** Motor Mount Ring, for 8 1/2" C-Face Motors (180C) Dual Output	**0064** **0128** **0256** **0512** **1024** **2048**	**L** No Index Available when Code 2 is 0512, 1024 or 2048 **G** Gated Index (Z, $\overline{Z}$) **Z** Differential Index (Z, $\overline{Z}$)	**J04** 5/8" bore **J05** 7/8" bore **J06** 1.00" bore **J07** 1-1/8" bore **K09** 1-3/8" bore **K10** 1-1/2" bore **K11** 1-5/8" bore **K12** 1-3/4" bore **K13** 1-7/8" bore **K14** 2.00" bore **K15** 2-1/8" bore **K16** 2-1/4" bore **K17** 2-3/8" bore **K18** 2-1/2" bore **K19** 2-7/8" bore Additional Shaft Sizes Available Up to 3.75" Maximum **End of Shaft Mounting for GE & Emerson Motors** N01 1.125" EOS N06 2.375" EOS N08 2.625" EOS N10 2.875" EOS	**C** Latching Industrial Connector with 1/2" NPT **M** 10 pin MS Connector **Double C-face Sandwich Version** **D** 1" Extended height connector **E** 3" extended height connector **P** 18" pigtail cable **Q** Latching Industrial Connector on 18" pigtail cable	**L** 5-15V in, 5-15V Line Driver (4428) out **H** Same as L with extended temp. to 100°C **V** 5-26V in, 5-26V Line Driver (IC-WE) out **5** 5-15V in, 5V Line Driver (4428) out Differential, bidirectional signals (A, $\overline{A}$, B, $\overline{B}$)	**C** Standard Flat Cover **E** Extra heavy duty steel pie pan cover **F** Flat Thru-hole cover Grounding brush kits available for End of Shaft Mounting, Consult Factory for ordering

Note: See ACCESSORIES Section For Connectors, Spare Parts and Pulse Wheels

DIMENSIONS inch [mm]

STANDARD HOUSING – SINGLE C-FACE



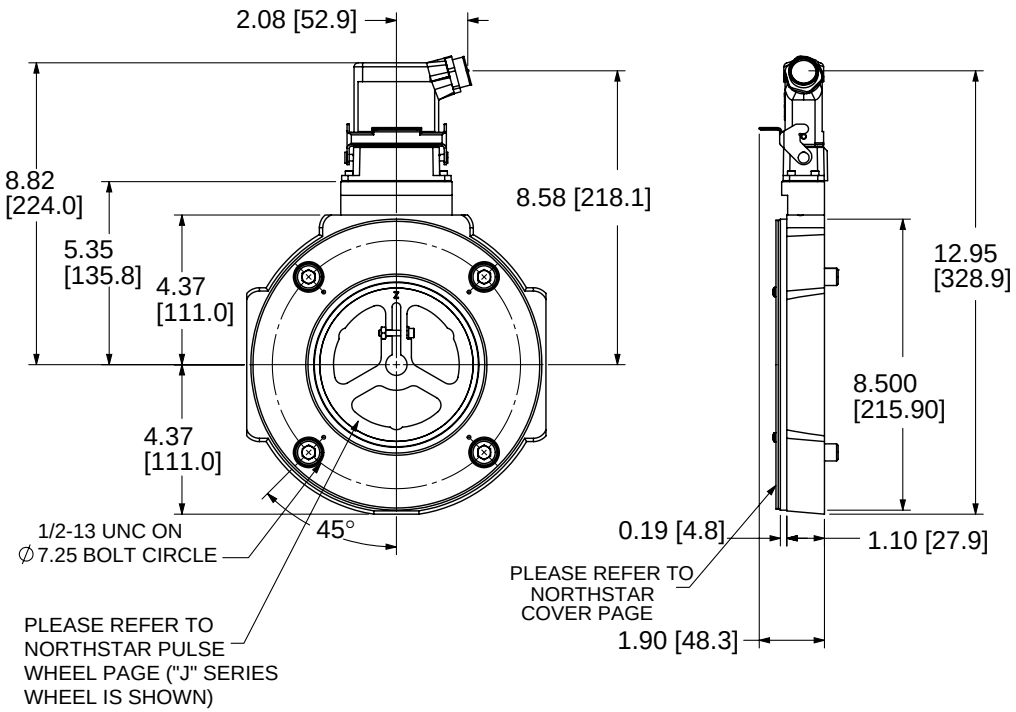
SERIES SL85

by DYNAPAR™

DIMENSIONS inch [mm]

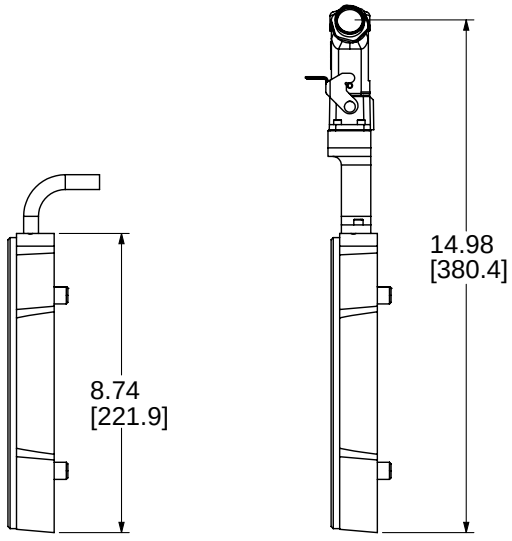
DOUBLE C-FACE HOUSING

D-DECODE:
DOUBLE C-FACE
INDUSTRIAL
1" EXTENDED HEIGHT
LATCHING CONNECTOR

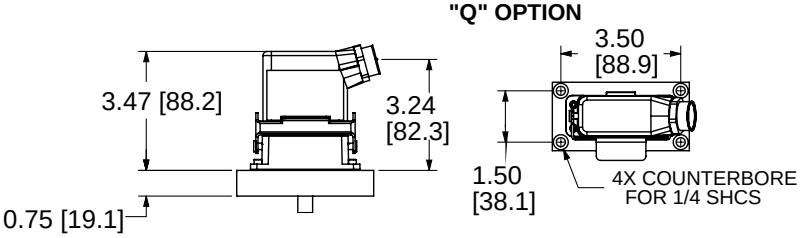


P-DECODE:
DOUBLE C-FACE
18" PIGTAIL
SEE "Q"
OPTION BELOW

E-DECODE:
DOUBLE C-FACE
3" EXTENDED HEIGHT
INDUSTRIAL
LATCHING CONNECTOR



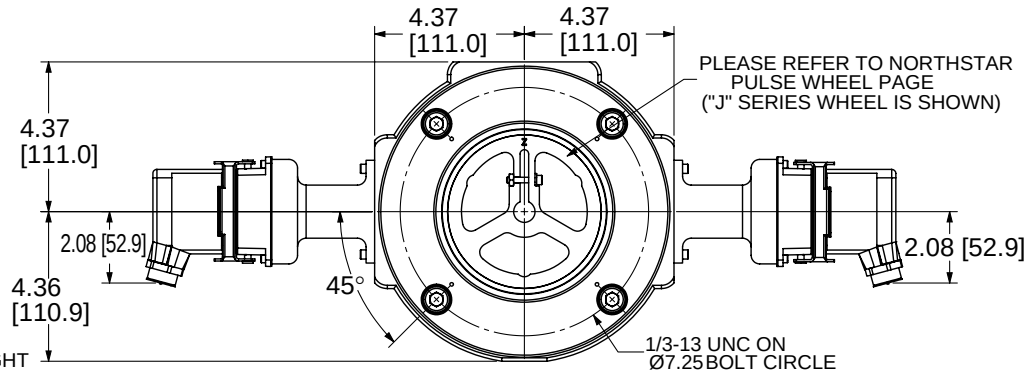
"Q" OPTION



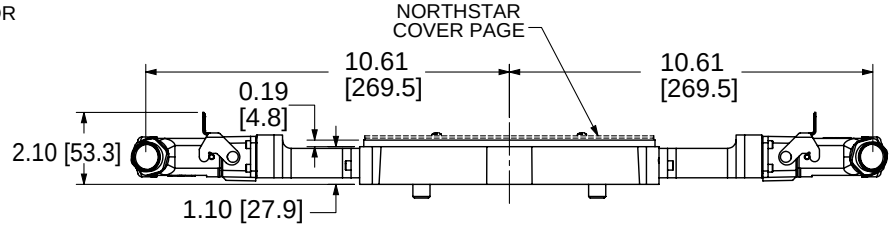
NorthStar™ brand SERIES SL85

DIMENSIONS inch [mm]

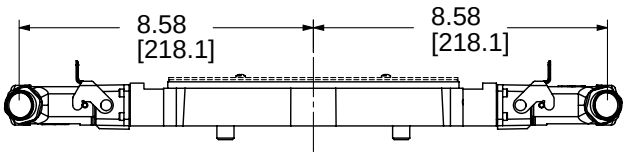
DUAL OUTPUT HOUSING



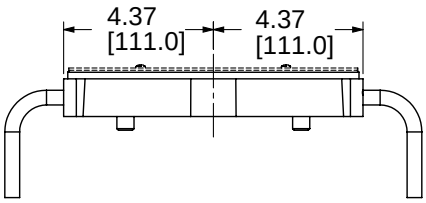
E DECODE:
DOUBLE C-FACE
3" EXTENDED HEIGHT
INDUSTRIAL
LATCHING CONNECTOR



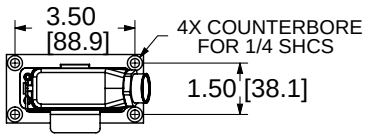
D DECODE:
DOUBLE C-FACE
1" EXTENDED HEIGHT
INDUSTRIAL
LATCHING CONNECTOR

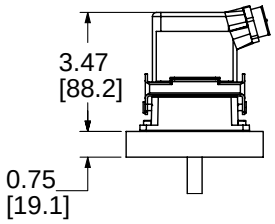


P DECODE:
DOUBLE C-FACE
18" PIGTAIL
SEE "Q" OPTION
AT RIGHT



"Q" OPTION





Worldwide Brands: NorthStar™ • Acuro™ • Dynapar™ • Hengstler™ • Harowe™

DYNAPAR™
INNOVATION - CUSTOMIZATION - DELIVERY

WWW.DYNAPAR.COM

Headquarters: 1675 Delany Road • Gurnee, IL 60031-1282 • USA

Customer Service:
Tel.: +1.800.873.8731
Fax: +1.847.662.4150
custserv@dynapar.com

Technical Support
Tel.: +1.800.234.8731
Fax: +1.847.662.4150
northstar.techsupport@dynapar.com

European Sales Representitive
Hengstler GmbH
Uhlandstrasse 49, 78554 Aldingen
Germany
www.hengstler.com

NorthStar™ brand is a trademark of DYNAPAR. All rights reserved.
Document No. 702902-0002, Rev. A ©2011 DYNAPAR

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP