

SIZE 25 SERIES TRDA-2A INCREMENTAL SHAFT ENCODER



US \$540.00
S.R.P. List Price

Spindle Encoder for CNC Machine Tools
Interchangeable with FANUC, SUMTAK, Kuroda and Tamagawa

FANUC # A86L-0027-001#002 (=Kuroda)

Tamagawa # TS 1508N91

SUMTAK # LF102.4BMC05P, #LF102.4BMS116, #LFC-002-1024

FEATURES:

- 2.5" (63mm) O.D. Heavy-duty designed. NEMA4/IP65
- 0.6" (15mm) Shaft, Shaft Seal Std.
- 1024 P/R Only, Square Flange & Round Flange
- Cost-effective, easy to switch for system intergrators
- For Cincinnati Machine, Mazak, Yaskawa, Hitachi (Mori) Seiki, Vickers, etc.

SPECIFICATIONS

Electrical

Pulse per Revolution	1024
Supply Voltage	4.75~5.25Vdc allowable ripple < 3%
Output Format	Line driver output 26C31 (EIA: RS-422A)
Current Consumption	150mA
Frequency Response	171 KHz
Duty Ratio	50±25%
Phase Shift	25±12.5%
Index Signal Width	100±50%
Output Level	(H) ≥2.3V (L) ≤0.5V
Rise and Fall Time	≤3µs
Insulation Resistance	≥50MΩ
Signal Wave	Two channel + index output

Mechanical

Shaft Loading	Axial: 50 (11.2)N (lbs) Radial: 100 (22.5)N (lbs)
Starting Torque	≤ 0.1N • m at +25°C
Moment of Inertia	1.0x10 ³ Kg • m ²
Slew Speed	10000 min ⁻¹
Weight	0.75 kg

Environmental

Temperature	Operating: -10 ~ +70°C Storage: -25 ~ +85°C
Operating Humidity	35 ~ 85% without condensation
Vibration	Durable for one hour along 3 axes at 10 to 55 Hz 0.75mm amplitude
Shock	294 m/s ² (1ms 3-times, each X, Y, Z)
Withstand Voltage	500VAC at 50/60Hz for 1 minute
Construction	NEMA4/IP65

DIVISION ACCURACY

Symmetry (A, B)	X1+X2=0.5T±0.25T X2+X3=0.5T±0.25T
Phase shift	Xn=0.25T±0.125T (n=1, 2, 3, 4)
Signal width of Z ch.	TM=1T±0.5T

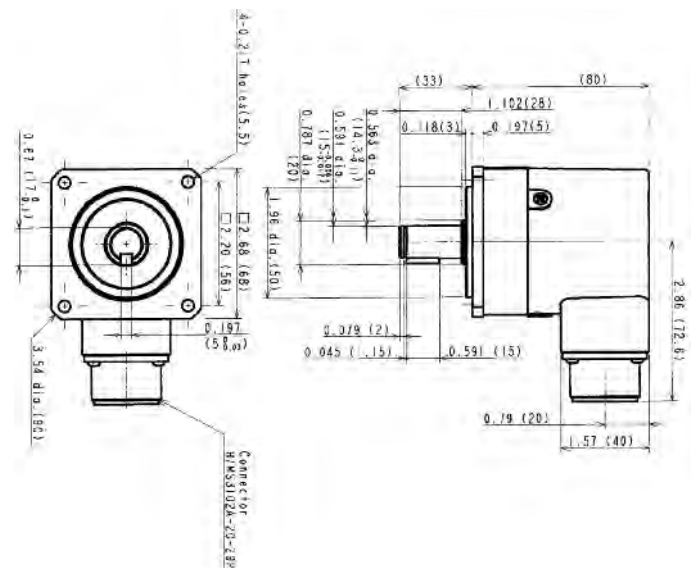
T=360° /N N: Pulse per revolution

DIVISION ACCURACY OF SIGNAL

Pitch Error	±0.01T
Adjacent Pitch Error	±0.02T

PULSE PER REVOLUTION	1024
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OUTSIDE DIMENSIONS/SQUARE FLANGE MODEL

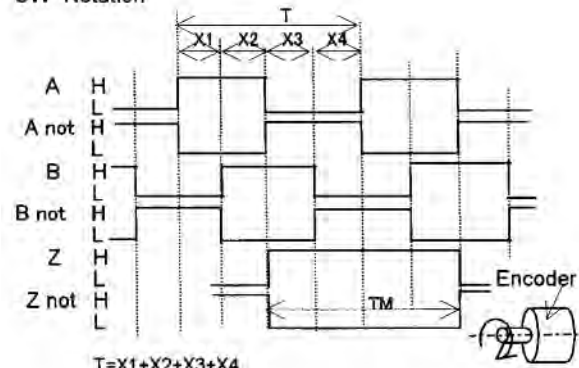


Order No.:

TRDA-2AS1024V-7083

LINE DRIVER WAVE FORM

CW Rotation



CW ROTATION AS VIEWED FROM ENCODER SHAFT

Metric Spindle for CNC

SERIES TRDA-2A

INCREMENTAL SHAFT ENCODER

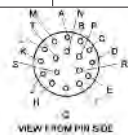
Series TRDA-2A / Size 25 Metric Spindle Encoder For CNC

MODEL NUMBER	SPECIFICATION	LIST PRICE	OPTIONAL
TRDA-2AS1024V-7083	Square Flange	\$540.00	Mating Connector Kit Part #DMS3106E20-29S
NEW! TRDA-2ASR1024V-7083	Round Flange	\$540.00	Order separately List \$60.00

CONNECTOR

Receptacle # DMS3102E20-29P

Pin Code	Function
A	A
B	Z
C	B
D	—
E	—
F	—
G	—
H	+5V
J	—
K	0V
L	—
M	0V
N	A not
P	Z not
R	B not
S	—
T	BODY

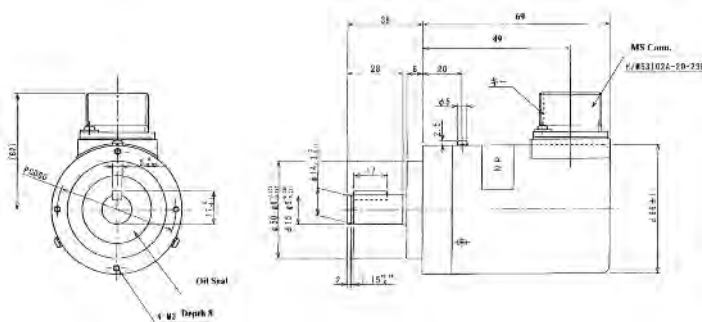
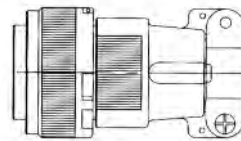


OPTIONAL PARTS

MATING CONNECTOR KIT		List Price
17 Pin	DMS3106E20-29S	\$60.00

(Including Straight Plug w/Cable Clamp, Insertions & Bushing)

Plug Connector



Due to circumstances beyond World Encoders' control, small quantities of In-Stock items will be shipped immediately, and lead time on Non-Stock items is up to a few weeks.