INDUSTRIAL DUTY

SERIES HA725

Shafted Encoder

Key Features

- High, direct-read resolutions up to 10,000 PPR
- Industry Standard size 25 (2.5")
- IP66 Sealing

7 pin, style MS3106A-16S-1S (MCN-N5); 10 pin, style MS3106A-18-1S (MCN-N6)

Dynapar[™] brand







STANDARD OPERATING CHARACTERISTICS	MECHANICAL				ENVIRONMENTAL			
Code: Incremental, Optical Resolution: 8192 to 10,000 PPR (pulses/revolu- tion)	-	; 35 lbs.	radial, 24 lbs. axia PM max.mechanio	Operating Temperature: 0 to +70 °C; Storage Temperature: -25 to +90 °C Shock: 50 G's for 11 milliseconds duration				
Accuracy: Any edge to any like edge of the same channel: ±10.8°/PPR (±3.9 arc-sec at 10,000 PPR) Any edge to any edge of the opposite channel: ±40°/PPR (±14 arc-sec at 10,000 PPR)	Moment of Inertia: 2.83 x 10 ⁻⁴ oz-in-sec ² Housing and Cover: Aluminum Shaft Material: Stainless Steel Disc Material: Glass Weight: 1.5 lbs				Vibration: 5 to 2000 Hz at 2 G's Humidity: Up to 98% (non-condensing) Enclosure Rating: NEMA4/IP66 (dust proof, washdown)			
Format: Two channel quadrature (AB) with op- tional Index (Z) and complementary outputs								
Phase Sense: A leads B for CCW shaft rotation as viewed from the shaft end of the encoder	ELECTRICAL C	ONNECT	IONS					
Quadrature Phasing: 90° ± 25° electrical Symmetry: 180° ± 25° electrical	Encoder 7 Pin Single Ended 10 Pin				Cable #1400635XXXX Dif Line Driver with Index			
idex: 90° ± 25° electrical (gated with A and B igh)	Function	Pin	Wire Color	Pin	Wire Color			
Waveforms: Squarewave with rise and fall times less than 1 microsecond into a load capacitance of 1000 pf	Sig. A	A	BRN	A	BRN			
	Sig. B	В	ORG	В	ORG			
	Sig. Z*	С	YEL	С	YEL			
	Power +V	D	RED	D	RED			
ELECTRICAL nput Power: (not including output loads) Push-pull: 10 min. to 30 VDC max. at 60 mA max. .ine driver: 5 VDC ±10% at 40 mA max.	Com	E	BLK	F	BLK			
	Case	F	GRN	G	GRN			
	N/C - Shield	G	<u> </u>	E				
Dutputs:	Sig. Ā	_	—	н	BRN/WHT			
Push-pull: ±30 mA, short circuit protected Line Driver: ±20 mA	Sig. B	—	-	I	ORG/WHT			
	Sig. Z*	_		J	YEL/WHT			
Frequency Response: Push-pull: 200 kHz min Line Driver: 300 kHz min.	Notes: 1) Cable Configuration: PVC jacket, 105 °C rated, overall foil shield; 3 twisted pairs 24 AWG (output signals), plus 2							
Noise Immunity: Tested to EN61326-1	 and the second se							

5) "MS" Type mating connectors and pre-build cables are rated NEMA 12



SERIES HA725

Ordering Information

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

Code 1: Model	Code 2: PPR	Code 3: Mechanical	Code 4: Output	Code 5: Electrical	Code 6: Termination
HA725					
HA725 Size 25, High Resolution	08192 09000 10000	0 Flange Mount, 3/8" Shaft	0 Single Ended2 Differential	Available when Code 4 = 0: 0 10-30V in; 10-30V Push-Pull out Available when Code 4 = 2: 4 5V in; 5V Line Driver out	0 Connector, End Mount1 Connector, Side Mount

Cable Assemblies with MS Connector*

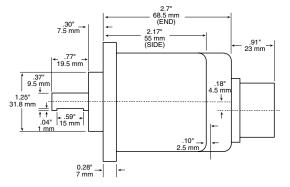
108595-XXXX 7 Pin MS, Cable Assy. For Use with Single Ended w/Index Outputs

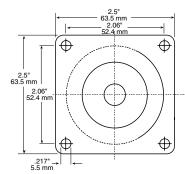
1400635-XXXX 10 Pin MS, Cable Assy. For Use with Differential Line Driver with Index Outputs

*Note: Standard cable length is 10 feet but may be ordered in any length in 5 foot increment.

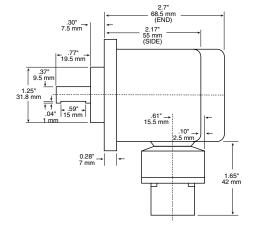
For example, for a 20 foot cable, replace XXXX with -0020.

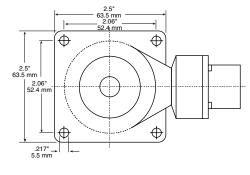
DIMENSIONS





Code 6: Termination: 0





Code 6: Termination: 1

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