

Incremental & Absolute Double Output EAD58

Application

Incremental & absolute double output encoder EAD58 series, used in special industry environment, has perfect anti-mechanical damage ability, and can afford higher axial & radial load. The electrical design realizes not only the absolute length measurement and fixing position, but also the incremental speed measurement. Compatible with most of the controllers.

Characteristics

- Pre-screw hole convenient for installation
- stainless steel
- Metal crust, perfect anti-shock ability
- Incremental & absolute double output
- Water proof seal promotes IP level
- Protect level IP64
- Waterproof output cable, convenient for mounting and maintenance



Mechanical Characteristics

Hollow Shaft (mm)	Φ10g6
Protection acc. to EN 60 529	IP64
Speed (r/m)	6000
Max load capacity of shaft	
Axial load capacity	60N
Radial load capacity	120N
Shock resistance	50G/11ms
Vibration resistance	10G 10~2000Hz
Bearing life	10 ⁹ revolution
Rotor moment of inertia	1.8×10 ⁻⁶ kgm ²
Starting torque	<0.01Nm
Body material	AL-alloy
Housing material	AL-alloy
Operating temperature	-20°C~~+80°C
Storage temperature	-25°C~~+85°C
Weight	370g

Provided Resolution:

Parallel (gray) resolution: 2, 4, 8, 16, 32, 64, 128, 256

Incremental resolution: 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024

Electrical Characteristics

Output Circuit	Parallel	Parallel	Interface type(incremental)	Line driver
Output driver	NPN/NPNcollector open/PNP/PNPcollector open		Output driver	RS422
Resolution	10 Bits	10 Bits	Resolution	1024ppr
Supply voltage (Vdc)	5V	10-30V	Supply voltage (Vdc)	5V
Power consumption (no load)	≤200mA	≤200mA	Current consumption (no load)	≤150mA
Permissible load/channel	±20mA	±20mA	Permissible load/channel	±40mA
Pulse frequency	Max 40kHz	Max 40kHz	Transmission rate	Max 40kHz
Signal level high	Min 3.4V	Min Ub-2.8V	Signal level high	Min 3V
Signal level low	Max 0.5V	Max 2.0V	Signal level low	Max 0.5V
Rise time Tr	Max 0.2μs	Max 1μs	Rise time Tr	Max 0.2μs
Fall time Tf	Max 0.2μs	Max 1μs	Fall time Tf	Max 0.2μs

*):NPN open collector is depended on pull-up resistor, 4.7kΩ for recommended resistance , 8.2kΩ for PNP open collector recommended resistance.

**):NPN(PNP) open collector is depended on pull-up(down) resistor and cable length.

Overview

General

Absolute

Easydic
Incremental

Topdic
Incremental

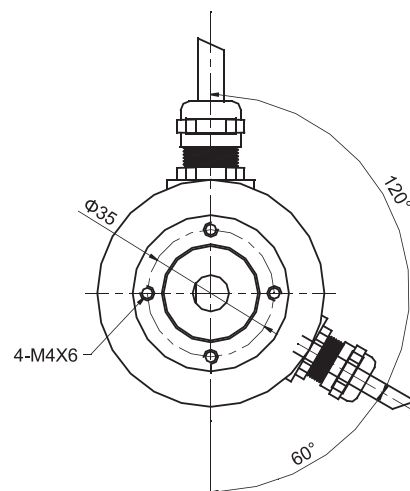
Heavydic
Incremental

Ex-proof

Special
Temperature

Adapter and draw
wire mechanics

Accessories



Incremental & Absolute Double Output EAD58

Order Code:

EAD	58	A	10	-	G	N6	N	PC	R	-	256	+	L5	P	R	-	1024
Series					Code Type			Type of connection			Resolution		Output & Supply voltage		Outlets direction		Resolution
EAD = Incremental & Absolute double output encoder					G=Gray			PC=standard cable standard length 1.5m			Singleturn resolution Max 1024 (10 bits)-parallel		L5=RS422 line driver 5Vdc		R=radial		≤1024
Housing Diameter 58=Housing diameter					Output logic			Output & Supply voltage			Resolution		Type of connection		Outlets direction		
Flange Type A=Φ43 clamping flange, shaft length 10mm					N=negative logic (parallel) P=positive logic (parallel)			N6=NPN (Standard negative logic) 10~30Vdc N5=NPN (Standard negative logic) 5Vdc C6=NPN open collector (Standard negative logic) 10~30Vdc C5=NPN open collector (Standard negative logic) 5Vdc R6=PNP (Standard positive logic) 10~30Vdc R5=PNP (Standard positive logic) 5Vdc U6=PNP open collector (Standard positive logic) 10~30Vdc U5=PNP open collector (Standard positive logic) 5Vdc			Singleturn resolution Max 1024 (10 bits)-parallel		P=standard cable standard length 1.5m		R=radial		
Shaft Diameter 10=Φ10mm																	

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