



Smart encoders & actuators

A41 Series Light Duty Incremental Encoders

Features

- Compact industrial encoders
- Solid or hollow shaft version
- Universal output circuit: 5–30 VDC Push-Pull (Totem Pole) or NPN/PNP open collector (HTL), or Line Driver (TTL)
- Quadrature output signals with index (ABZ, /ABZ)
- High resolution up to 4096 PPR
- IP64 environmental rating



A41 Series Medium Duty Incremental (Quadrature) Encoders

Part Number	Price	Pulses per Revolution	Dimensional Drawing	Shaft Type	Body Diameter	Input Voltage	Cable	Output
A41S-0100-HZCP6-AL2	\$98.00	100	PDF	1/4" Solid	41mm	5–30 VDC	2m (6.5 ft) pigtail	Universal circuit: Push-Pull (Totem Pole), or NPN/ PNP open collector (HTL), or Line Driver (TTL)
A41S-0200-HZCP6-AL2	\$92.00	200	PDF					
A41S-0360-HZCP6-AL2	\$92.00	360	PDF					
A41S-0500-HZCP6-AL2	\$92.00	500	PDF					
A41S-1000-HZCP6-AL2	\$99.00	1000	PDF					
A41S-1024-HZCP6-AL2	\$99.00	1024	PDF					
A41S-2000-HZCP6-AL2	\$99.00	2000	PDF					
A41S-2048-HZCP6-AL2	\$99.00	2048	PDF					
A41S-3600-HZCP6-AL2	\$99.00	3600	PDF					
A41S-4096-HZCP6-AL2	\$99.00	4096	PDF					
A41H-0100-HZCP6-AL2	\$103.00	100	PDF	1/4" Hollow				
A41H-0200-HZCP6-AL2	\$97.00	200	PDF					
A41H-0360-HZCP6-AL2	\$97.00	360	PDF					
A41H-0500-HZCP6-AL2	\$97.00	500	PDF					
A41H-1000-HZCP6-AL2	\$103.00	1000	PDF					
A41H-1024-HZCP6-AL2	\$103.00	1024	PDF					
A41H-2000-HZCP6-AL2	\$103.00	2000	PDF					
A41H-2048-HZCP6-AL2	\$103.00	2048	PDF					
A41H-3600-HZCP6-AL2	\$103.00	3600	PDF					
A41H-4096-HZCP6-AL2	\$103.00	4096	PDF					

Accessories - A41 Series

Accessories for A41 Series Encoders

Part Number	Price	Description
PF4266	\$12.00	Lika Electronic round mounting flange, 48mm bolt hole circle, metal. For use with Lika Electronic A41 series encoders. Mounting hardware included.
LKM-386	\$9.00	Lika Electronic servo mount clamp, metal. For use with Lika Electronic AQ58 and A41 series encoders. Mounting hardware included.



PF4266



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Specifications - A41 Series

Electrical Specifications	
Resolution (PPR)	100, 200, 360, 500, 1000, 1024, 2000, 2048, 3600, 4096
Output Signals	Quadrature output signals with index (ABZ, /ABZ)
Counting Frequency	100kHz maximum
Output Circuits	Universal circuit: Push-Pull (Totem Pole), or NPN/PNP open collector (HTL), or Line Driver (TTL)
Power Supply	+5VDC to +30VDC
Consumption	70mA (typical)
Output Current (each channel)	40mA maximum
Protection	Against inversion of polarity and short circuit
EMC	Electro-magnetic immunity according to EN61000-4-2 and EN61000-4-4
Mechanical Specifications	
Shaft Diameter	Ø 6.35 mm (1/4")
Shaft Loading (axial, radial)	20N maximum
Shaft Rotational Speed	6000 rpm maximum
Starting Torque (@20°C)	0.1 Ncm (typical)
Bearings Life	10 ⁹ rev. min
Electrical Connections	Cable output 2m (6.5 ft)
Weight	100g (3.5 oz)
Materials	
Flange	Anticorodal, UNI EN AW-6082
Housing	Fiberglass epoxy resin
Bearings	ABEC 5
Shaft	Stainless steel, non-magnetic, UNI EN 4305
Environmental Specifications	
Shock	250g, 6ms acc. to CEI EN 60068-2-27
Vibrations	10g, 5-2000 Hz acc. to CEI EN 60068-2-6
Protection	IP64
Operating Temperature Range	-25°C to 85°C (-13°F to 185°F)
Storage Temperature Range	-25°C to 85°C (-13°F to 185°F) (98% relative humidity without condensation)
Approvals	CE, UKCA, _c UR _{us} , RoHS