



Smart encoders &amp; 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
<a href="#">A41S-0100-HZCP6-AL2</a>	\$;06bx[:	100	<a href="#">PDF</a>	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)
<a href="#">A41S-0200-HZCP6-AL2</a>	\$06bx_:	200	<a href="#">PDF</a>					
<a href="#">A41S-0360-HZCP6-AL2</a>	\$06bx#:	360	<a href="#">PDF</a>					
<a href="#">A41S-0500-HZCP6-AL2</a>	\$;06bx!:	500	<a href="#">PDF</a>					
<a href="#">A41S-1000-HZCP6-AL2</a>	\$06bx?:	1000	<a href="#">PDF</a>					
<a href="#">A41S-1024-HZCP6-AL2</a>	\$;06bx,::	1024	<a href="#">PDF</a>					
<a href="#">A41S-2000-HZCP6-AL2</a>	\$06by0:	2000	<a href="#">PDF</a>					
<a href="#">A41S-2048-HZCP6-AL2</a>	\$06by1:	2048	<a href="#">PDF</a>					
<a href="#">A41S-3600-HZCP6-AL2</a>	\$06by2:	3600	<a href="#">PDF</a>					
<a href="#">A41S-4096-HZCP6-AL2</a>	\$06by3:	4096	<a href="#">PDF</a>					
<a href="#">A41H-0100-HZCP6-AL2</a>	\$06by4:	100	<a href="#">PDF</a>	1/4" Hollow				
<a href="#">A41H-0200-HZCP6-AL2</a>	\$06by5:	200	<a href="#">PDF</a>					
<a href="#">A41H-0360-HZCP6-AL2</a>	\$06by6:	360	<a href="#">PDF</a>					
<a href="#">A41H-0500-HZCP6-AL2</a>	\$06by7:	500	<a href="#">PDF</a>					
<a href="#">A41H-1000-HZCP6-AL2</a>	\$06by8:	1000	<a href="#">PDF</a>					
<a href="#">A41H-1024-HZCP6-AL2</a>	\$06by9:	1024	<a href="#">PDF</a>					
<a href="#">A41H-2000-HZCP6-AL2</a>	\$06bya:	2000	<a href="#">PDF</a>					
<a href="#">A41H-2048-HZCP6-AL2</a>	\$06byb:	2048	<a href="#">PDF</a>					
<a href="#">A41H-3600-HZCP6-AL2</a>	\$06byc:	3600	<a href="#">PDF</a>					
<a href="#">A41H-4096-HZCP6-AL2</a>	\$06byd:	4096	<a href="#">PDF</a>					

## Accessories - A41 Series

### Accessories for A41 Series Encoders

Part Number	Price	Description
<a href="#">PF4266</a>	\$6by?:	Lika Electronic round mounting flange, 48mm bolt hole circle, metal. For use with Lika Electronic A41 series encoders. Mounting hardware included.
<a href="#">LKM-386</a>	\$6bz8:	Lika Electronic servo mount clamp, metal. For use with Lika Electronic AQ58 and A41 series encoders. Mounting hardware included.

**PF4266**



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# A41 Series Light Duty Incremental Encoders

## Specifications - A41 Series

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