



Smart encoders & actuators

A50 Series Medium Duty Incremental Encoders

Features

- Small size hollow shaft encoders, 1/4" and 3/8"
- Ideally suited for motor feedback applications
- Extended standard operating temperature from -40°C to 100°C
- 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)
- IP65 environmental rating



A50 Series Medium Duty Incremental (Quadrature) Encoders												
Part Number	Price	Pulses per Revolution	Dimensional Drawing	Shaft Type	Body Diameter	Input Voltage	Cable	Output				
A50H-0360-HZCP6-RL2	\$105.00	360	PDF	1/4" Hollow	50mm	5–30 VDC	2m (6.5 ft) pigtail	Universal circuit: Push-Pull (Totem Pole), or NPN/PNP open collector (HTL), or Line Driver (TTL)				
A50H-1000-HZCP6-RL2	\$105.00	1000	PDF									
A50H-1024-HZCP6-RL2	\$105.00	1024	PDF									
A50H-2048-HZCP6-RL2	\$105.00	2048	PDF									
A50H-0360-HZCP9-RL2	\$105.00	360	PDF	3/8" Hollow								
A50H-1000-HZCP9-RL2	\$105.00	1000	PDF									
A50H-1024-HZCP9-RL2	\$105.00	1024	PDF									
A50H-2048-HZCP9-RL2	\$105.00	2048	PDF									

Accessories - A50 Series

Accessories for A50 Series Encoders		
Part Number	Price	Description
KIT-C50	\$9.00	Lika Electronic encoder mounting plate, replacement, metal. For use with Lika Electronic A50 series encoders. Mounting hardware included.

**KIT-C50**



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Specifications - A50 Series

Electrical Specifications	
Resolution (PPR)	360, 1000, 1024, 2048
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 (except inductive circuit)
EMC	Electro-magnetic immunity according to EN61000-4-2 and EN61000-4-4
Mechanical Specifications	
Shaft Diameter	Ø 6.35 mm (1/4"), 9.52 mm (3/8")
Shaft Loading (axial, radial)	20N maximum
Shaft Rotational Speed	6000 rpm maximum
Starting Torque (@20°C)	≤0.25 Ncm (typical)
Bearings Life	10 ⁹ rev. min
Electrical Connections	Cable output 2m (6.5 ft)
Weight	100g (3.5 oz)
Materials	
Flange	Zamak 15, UNI EN1774
Housing	Zamak 15, UNIT EN1774
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	IP65
Operating Temperature Range	-40°C to 100°C (-40°F to 212°F)
Storage Temperature Range	-40°C to 100°C (-40°F to 212°F) (98% relative humidity without condensation)
Approvals	CE, UKCA, _c UR _{us} , RoHS