ENCODER HOLLOW SHAFT J-50H/T



JAYASHREE ENCODERS

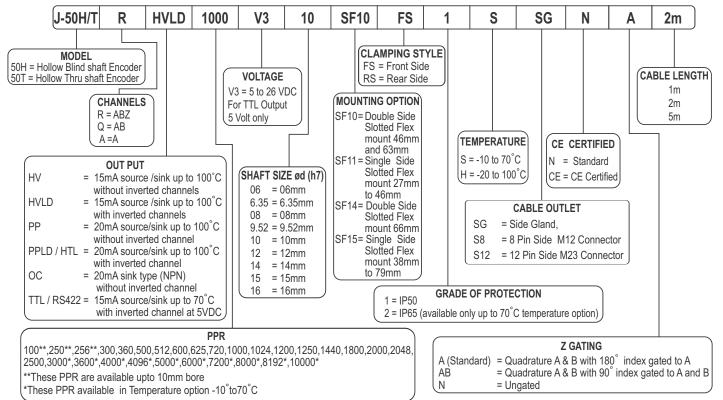
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THE PERFECT CODER ISO 9001-2015

FEATURES

- · Encoder designed for Induction motor feedback applications
- Through and blind bore upto 16mm
- Robust design less than 52 mm diameter size with gland and dicast covers
- Shatter proof polycarbonate disk
- Designed with many options including various types of connectors and mounting flex
- Collet clamp for fixing motor shaft
- LED power compensated for aging and temperature
- RobustASIC based design
- · Robust electrical design capable of taking surge across supply voltage
- · Output stage with long distance cable driving capability

ORDERING EXAMPLE - J-50T-R-HVLD-1000-V3-10-SF10-FS-1-S-SG-N-A-2m



Electrical Characteristics

	TTL / RS422	PP	PPLD / HTL	OC	HV	HVLD
Power Supply	4.85 5.25 VDC (Ripple Peak to Peak 5%)4.85 26 VDC (Ripple Peak to Peak 5%))	
Power consumption [No Load]	40mA					
Permissible load / Channel	15mA	20mA 20mA 20mA		20mA	15mA	15mA
Pulse Frequency	100 kHz	300 kHz	300 kHz	50 kHz	100 kHz	100 kHz
Short circuit proof output	No	Yes Yes		Yes	Yes	Yes
Reverse polarity protection of the power supply	Yes					
Sensing Method	Optical					
Surge protection as per IEC61000-4-5 500V			Yes	Yes	Yes	Yes
Duty Cycle	$180^{\circ} \pm 18^{\circ}$					
A and B Phase shift	$90^{\circ} \pm 36^{\circ}$					

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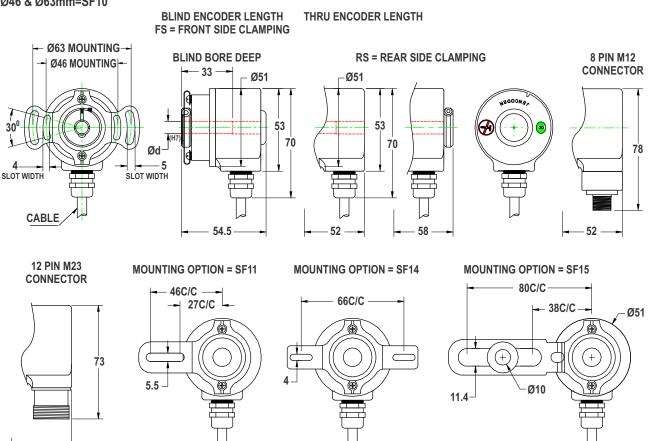
Mechanical characteristics

Shaft Load Capacity Max. Speed	Radial 10kg, Axial 10kg 6000 RPM	Vibratio
Protection IEC60529 Working temperature range	IP50, IP65 -10+70°C -20+100°C (IP50)	Shock
Material	Shaft : stainless steel Grade 303 alternative Grade 304 Housing : Cast Alloy Cover : Cast Alloy	
Weight	Below 170 grams	

Environmental characteristics

Vibration Resistance	10G, 102000Hz as per IEC 60068-2-6, more possible contact factory
Shock Resistance	100G, 6ms as per IEC 60068-2-27, more possible contact factory

J-50H/T **Slotted Flexmount** Ø46 & Ø63mm=SF10



All dimension are in mm with a tolerance of ± 0.1 unless otherwise specified

Temp ⁰ C	Frequency kHz	Voltage V	Load Current	Cable Mtr	
70 ⁰ C	300Khz	24Vdc	20mA	5 Mtr	
70 ⁰ C	150Khz	15Vdc	20mA	30 Mtr	
70 ⁰ C	50Khz	24Vdc	20mA	100 Mtr	

· For OC output, the rise and fall time depends on cable capacitance, A process of the frequency gets limited by cable distance. In general we recommend to use OC- output upto 10meter distance only.
OC output is limited upto 50Khz, all other output types can go upto

300Khz.

· Cable length depends upon by operating Voltage, Frequency, Cable capacitance & load. The figures given in above table are representetive

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- 52 -

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Wiring Detail

Function	n Wire color		Pin							
	HV,PP,OC	HVLD, PPLD, TTL	6 PIN CONN R-PP	6 PIN CONN Q PPLD	7 PIN CONN R PP	7 PIN CONNQ PPLD	8 PIN CONN. M12	10 PIN MS	12 PIN (M23)	17 PIN MS
+VDC	White	White	D	D	D	D	2	D	2, 12	Н
COMM	Black	Black	F	F	F	F	1	F	10, 11	К
А	Brown	Brown	А	A	А	Α	3	А	5	А
A ⁻		Yellow		С		С	4	Н	6	Ν
В	Red	Red	В	В	В	В	5	В	8	С
B⁻		Green		E		G	6	-	1	R
Z	Orange	Orange	С		С		7	С	3	В
Z		Blue					8	J	4	Р
Shield	Bare	Bare	E	NA	E	E	Body	G	9	E, L



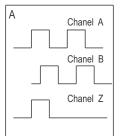


Fig 1 : Quadrature A & B with 180° Index gated to A



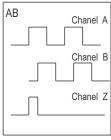


Fig 2 : Quadrature A & B with 90° Index gated to A & B

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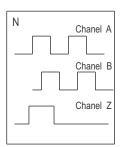


Fig 3 : Quadrature A & B with ungated Index