

# ENCODER SOLID SHAFT J-40S

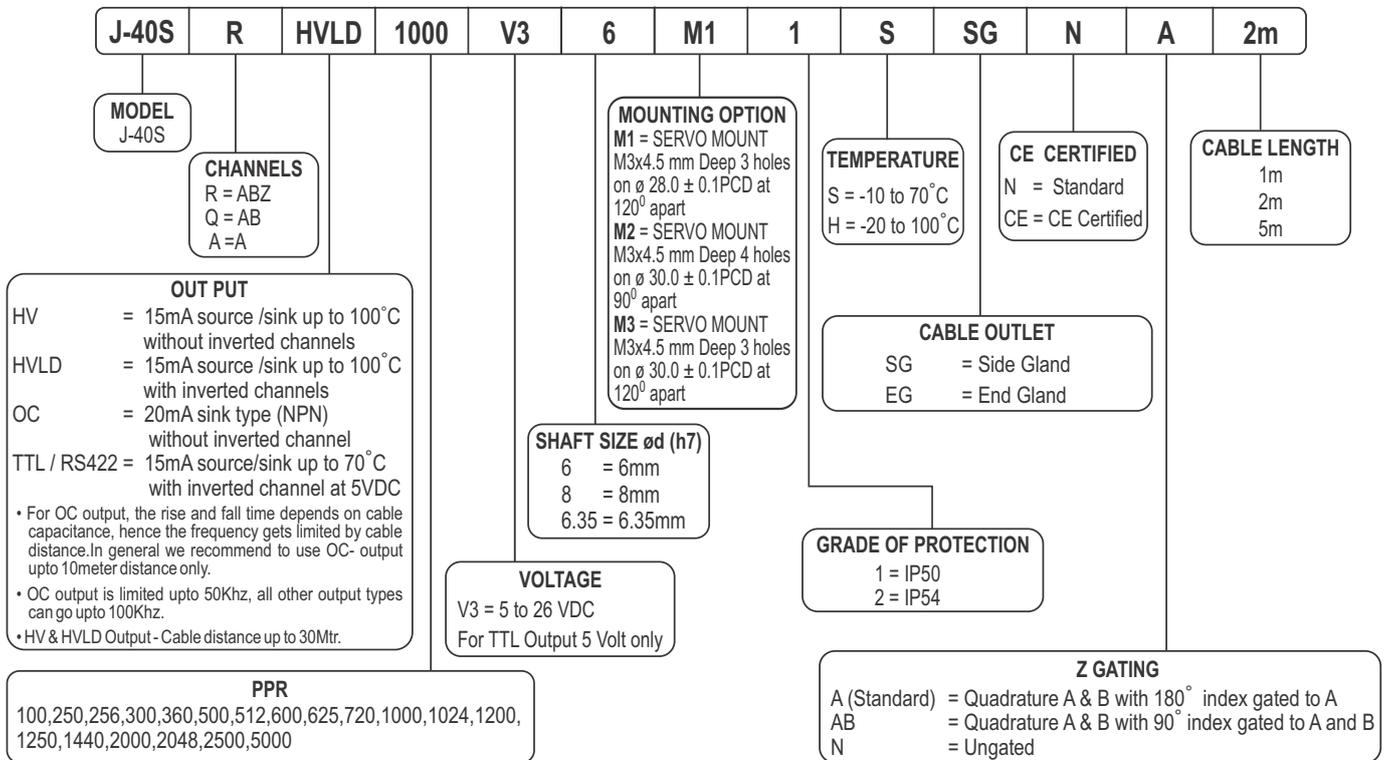


JAYASHREE ENCODERS  
**JENCODER**<sup>TM</sup>  
THE PERFECT CODER  
ISO 9001-2015

## FEATURES

- Compact size encoder specifically designed for narrow space installation
- Shaft size upto 8mm available
- Robust design for 40mm size with gland and diecast covers
- Shatter proof polycarbonate disk
- Designed for applications requiring compact size
- LED power compensated for aging and temperature
- Robust ASIC based design
- Robust electrical design capable of taking surge across supply voltage

## ORDERING EXAMPLE - J-40S-R-HVLD-1000-V3-6-M1-1-S-SG-N-A-2m.



## Electrical Characteristics

	TTL / RS422	OC	HV	HVLD
<b>Power Supply</b>	4.85 ... 5.25 VDC (Ripple Peak to Peak 5%)			
<b>Power consumption [No Load]</b>	40mA			
<b>Permissible load / Channel</b>	15mA	20mA	15mA	15mA
<b>Pulse Frequency</b>	100 kHz	50 kHz	100 kHz	100 kHz
<b>Short circuit proof output</b>	No	Yes	Yes	Yes
<b>Reverse polarity protection of the power supply</b>	Yes			
<b>Sensing Method</b>	Optical			
<b>Surge protection as per IEC61000-4-5 500V</b>	No	Yes	Yes	Yes
<b>Duty Cycle</b>	180° ± 18°			
<b>A and B Phase shift</b>	90° ± 36°			

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## Mechanical characteristics

<b>Shaft Load Capacity</b>	Radial 4kg, Axial 2kg
<b>Max. Speed</b>	4500 RPM
<b>Protection IEC60529</b>	IP50, IP54
<b>Working temperature range</b>	-10...+70°C -20...+100°C (IP50)
<b>Material</b>	Shaft : stainless steel Grade 303 alternative Grade 304 Housing : Aluminum Cover : Cast Alloy
<b>Weight</b>	Below 145 grams

## Environmental characteristics

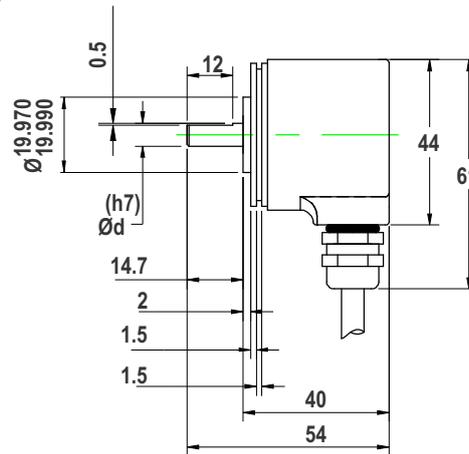
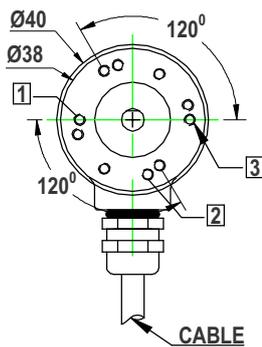
<b>Vibration Resistance</b>	10G, 10--2000Hz as per IEC 60068-2-6, more possible contact factory
<b>Shock Resistance</b>	100G, 6ms as per IEC 60068-2-27, more possible contact factory

## Wiring Detail

Function	HV, OC	Wire color
		HVLD, TTL
+VDC	White	White
COMM	Black	Black
A	Brown	Brown
A <sup>-</sup>	---	Yellow
B	Red	Red
B <sup>-</sup>	---	Green
Z	Orange	Orange
Z <sup>-</sup>	---	Blue
Shield	Bare	Bare

## Mounting Options : J40S

- M1 **1** M3X4.5 Deep 3 Holes on  $\varnothing 28 \pm 0.1$  PCD at  $120^\circ$  Apart  
M2 **2** M3X4.5 Deep 4 Holes on  $\varnothing 30 \pm 0.1$  PCD at  $90^\circ$  Apart  
M3 **3** M3X4.5 Deep 3 Holes on  $\varnothing 30 \pm 0.1$  PCD at  $120^\circ$  Apart



All dimension are in mm with a tolerance of  $\pm 0.1$  unless otherwise specified

Output Waveform :  
Viewed from Shaft End  CW Direction

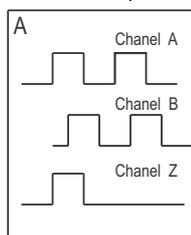


Fig 1 : Quadrature A & B with  $180^\circ$  Index gated to A

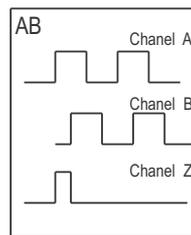


Fig 2 : Quadrature A & B with  $90^\circ$  Index gated to A & B

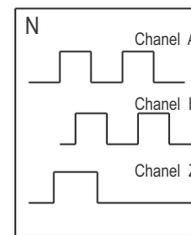


Fig 3 : Quadrature A & B with ungated Index



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