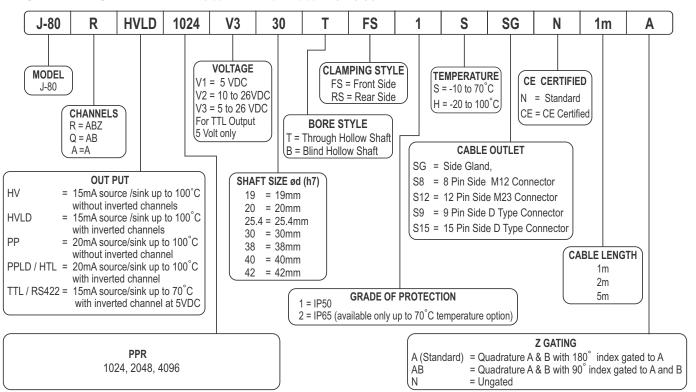




FEATURES

- One of the most compact encoder design for direct mounting behind an induction motor - Elevator Application
- Shatter proof polycarbonate disk
- LED power compensated for aging and temperature
- · Robust ASIC based design
- Robust electrical design capable of taking surge across supply voltage
- Output stage with long distance cable driving capability

ORDERING EXAMPLE - J-80-R-HVLD-1024-V3-30-T-FS-1-S-SG-N-1m-A



Electrical Characteristics

	TTL / RS422	PP	PPLD / HTL		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		15mA	15mA	
Pulse Frequency	100 kHz	300 kHz	300 kHz		100 kHz	100 kHz	
Short circuit proof output	No	Yes	Yes		Yes	Yes	
Reverse polarity protection of the power supply	Yes						
Sensing Method	Optical						
Surge protection as per IEC61000-4-5 500V	No	Yes	Yes		Yes	Yes	
Duty Cycle	180° ± 18°						
A and B Phase shift	90° ± 36°						

ENCODER HOLLOW SHAFT J-80



Mechanical characteristics

Shaft Load Capacity Radial 10kg, Axial 10kg

 Max. Speed
 2000 RPM

 Protection IEC60529
 IP50

 IP54
 IP54

Working temperature range -10...+70°C

-20...+100°C (IP50)

Material Shaft : Aluminum

Housing: Cast Alloy Cover: Cast Alloy

Weight Below 460 grams

Environmental characteristics

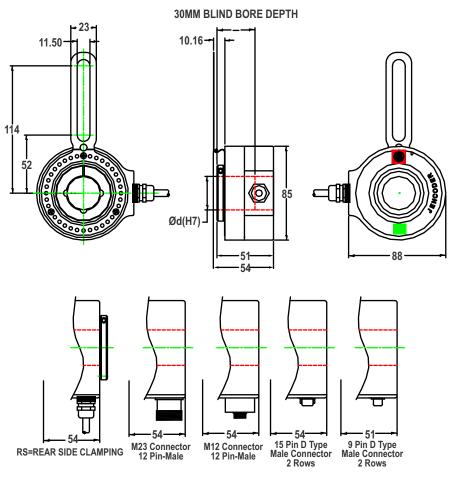
Vibration Resistance 10G ,10---2000Hz as per IEC 60068-2-6,

more possible contact factory

Shock Resistance 100G, 6ms as per IEC 60068-2-27,

more possible contact factory

J 80



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°C	300Khz	24Vdc	20mA	5 Mtr
70°C	150Khz	15Vdc	20mA	30 Mtr
70°C	50Khz	24Vdc	20mA	100 Mtr

- Cable length depends upon by operating Voltage, Frequency, Cable capacitance & load. The figures given in above table are representetive
- For OC output, the rise and fall time depends on cable capacitance, hence 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.

ENCODER HOLLOW SHAFT J-80



Wiring Detail

Function	Wire Color		Pin			
	HV,PP	HVLD, PPLD, TTL	9 PIN D CONN	15 PIN D CONN	8 PIN CONN M12	12 PIN (M23)
+VDC	White	White	1	4	2	2, 12
COMM	Black	Black	9	5	1	10, 11
Α	Brown	Brown	3	15	3	5
Α-		Yellow	4	14	4	6
В	Red	Red	6	13	5	8
B ⁻		Green	5	12	6	1
Z	Orange	Orange	10	7	7	3
Z ⁻		Blue	11	8	8	4
Shield	Bare	Bare	Case	Case	Case	9

Output Waveform : Viewed from Shaft End CW Direction

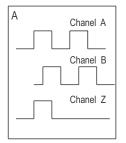


Fig 1 : Quadrature A & B with 180° Index gated to A

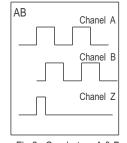


Fig 2 : Quadrature A & B with 90° Index gated to A & B

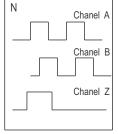


Fig 3 : Quadrature A & B with ungated Index

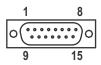
M23 Connector 12 Pin-Male



M12 Connector 8 Pin-Male



15 PIN DETAIL





9 PIN DETAIL



WORLD CLASS MANUFACTURING FACILITY

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