2 PR-03-SERIES

INCREMENT ENCODER Ø 38 MM.

PR-03-H



TECHNICAL SPECIFICATION

	Push-Pull	8-30VDC	
Power Supply	Line Driver	5VDC	
Current Consumption	Max 42.5mA		
Pulse/Revolution	25-2048 Pulse/Revolution		
Wave Form Output	2-phase+Index Position A,B,Z and \overline{A} , \overline{B} , \overline{Z}		
	Duty Ratio 50%		
Rise/Fall Time	100 ns.		
Max Frequency Response	200kHz		
Max Speed	20,000 RPM		
Operating Temperature	-10 °C to 70 °C		
Storage Temperature	-30 °C to 85 °C		
Operating Humidity	0-80%RH		
Degree of Protection	IP50		
Vibration	10-55Hz		
Weight	150 g.		
Shaft Diameter	6 mm.		
Hollow Shaft Diameter	6 mm.		
Housing Diameter	38 mm.		
Cable	50 cm. Shield Cable		
Direction of Rotation	Positive Direction/ Negative Direction		
	Cover	Steel	
Material	Encoder	Aluminium	
	Shaft	Stainless	

WIRING DIAGRAM

Push-Pull The Shielded Wire is Connected to the main body.





- It is a device to convert the axis of the shaft of the Encoder into an electrical pulse, compact size of 38 mm.
- Number of Pulse/Revolution can be selected from 25-2048 Pulse/ Revolution
- Push-Pull output can be used for both NPN, PNP Open Collector and Line-Driver.
- Push-Pull output signal (A, B, Z) and Line-Driver (A, \overline{A} , B, \overline{B} , Z, \overline{Z})
- Power supply 8-30 VDC (Push-Pull) and 5 VDC (Line-Driver)

OPERATION

Connect the shaft of the Encoder PR-03 to the motor shaft or the work to be measured. When the PR-03 shaft rotates according to the motor, it sends a pulse signal according to the pulse er round of the model PR -03-S-100 will be divided into 100 parts per 1 round. As the shaft moves, it sends the pulse out of the rotating parts. Signal A and Signal B Lead / Lag angle 90 degrees by the electric clockwise rotation A will lead B, but if turn counterclockwise B will be ahead of A, which will be useful to check the direction. The Signal Z will have 1 Pulse to inform you of the anniversary

If the line - driver output signal is 6 Signal is A, \overline{A} , B, \overline{B} , Z, \overline{Z} by A will invert with A, \overline{B} will invert with B and \overline{Z} will invert with Z displayed by Signal Graph

SIGNAL OPERATION GRAPH







PRIMUS



INCREMENT ENCODER Ø 38 MM.

DIMENSION





CIRCUIT OF OUTPUT SIGNAL



Push-Pull

ACCESSORY

PR-02-06 COUPLING for PR-03-S



• For PR -03 - S

• It is a connector for welding the Encoder to Load or Motor.

DIMENSION



Model	D1/D2	L	D	Torque	Angular	Material
PR-02-06	6/6 mm.	21 mm.	15 mm.	0.8 N.m.	5 องศา	Polyester Resir



Line Driver

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Ρ] -	
	TYPE	
S	Shaft]
н	Hollow-Shaft	

PULSE/REVOLUTION				
25	25 Pulse/Revolution			
50	50 Pulse/Revolution			
100	100 Pulse/Revolution			
128	128 Pulse/Revolution			
200	200 Pulse/Revolution			
256	256 Pulse/Revolution			
400	400 Pulse/Revolution			
500	500 Pulse/Revolution			
512	512 Pulse/Revolution			
1024	1024 Pulse/Revolution			
2048	2048 Pulse/Revolution			

SIGNAL OUTPUT PUSH-PULL 8-30VDC (Supply) LINE-DRIVER 5VDC (Supply)

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ORDERING CODE

Accessories Coupling PR-02-06

***Remark : Coupling is used with PR-03-S only