



PR-04-S

PR-04-H



DESCRIPTION

- It is a device that converts the axis of the encoder shaft into a pulse.
The electric pulse can be programmed in the same P/R. Easy to use
- The program can select the district pulse/ cycle from 1-4096 Pulses
- Push-Pull output is available for NPN, PNP Open Collector and Line-Driver
- Push-Pull output (A, B, Z) and Line-Driver (A, \bar{A} , B, \bar{B} , Z, \bar{Z})
- Power supply B-27 VDC (Push-pull) and 5 VDC (Line Driver)

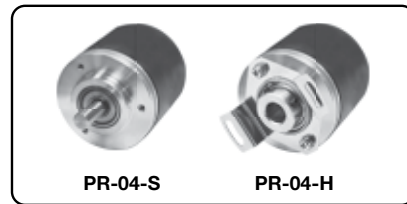
OPERATION

PR-04-SERIES is Programmable Increment Encoder that can program Pulse/ cycle range from 1-4096 Pulse/Cycle by connecting PR-PRO (Converter+ USB Cable+ Software) to PR-04-SERIES (Programmable Increment) Encoder) and ComputerSet the pulse/cycle range through software before use

Connect the Programmable Increment Encoder PR-04-SERIES to the motor shaft or work piece to be measured on the shaft. The PR-04-SERIES rotates according to the motor sends a pulse signal according to the pulse/ cycle of the model. For example, the PR-04-S-100 works by dividing one round into 100 parts, while the moving shaft sends the pulse out of the rotating parts. Signal B and A are 90° electrical lead / lag . When clockwise rotation, B will take page A, but if turn counterclockwise A will go to page B, which will be useful to check the direction of rotation of the encoder. Signal Z will have 1 pulse/cycle to indicate the anniversary. Program can provide pulse lengths of 90°, 180°, 270° and 360° as desired.

TECHNICAL SPECIFICATION

Power Supply	Push-Pull	8-30VDC
	Line Driver	5VDC
Pulse/Revolution (PPR)	1-16,384 Pulse/Revolution	
Index Pulse Length	90°, 180°, 270°, 360°	
Current Consumption	Max 42.5mA	
Output Wave Form	2-phase+Index Position A,B,Z and \bar{A} , \bar{B} , \bar{Z}	
	Duty Ratio 50%	
Rise/Fall Time	100 ns.	
Max Frequency Response	200kHz	
Max Speed	12,000 RPM	
Operating Temperature	-10 °C to 70 °C	
Storage Temperature	-30 °C to 85 °C	
Operating Humidity	85% RH	
	Non-Condensing	
Degree of Protection	IP50	
Vibration	10-55Hz	
Shaft Diameter	8 mm.	
Hollow Shaft Diameter	8 mm.	
Housing Diameter	50 mm.	
Cable	50 cm. Shield Cable	
Direction of Rotation	Positive Direction/ Negative Direction	
Material	Cover	Steel
	Encoder	Aluminium
	Shaft	Stainless
Weight	215 g.	



Programmable Incremental Encoder

PR-PRO

Converter + USB Cable

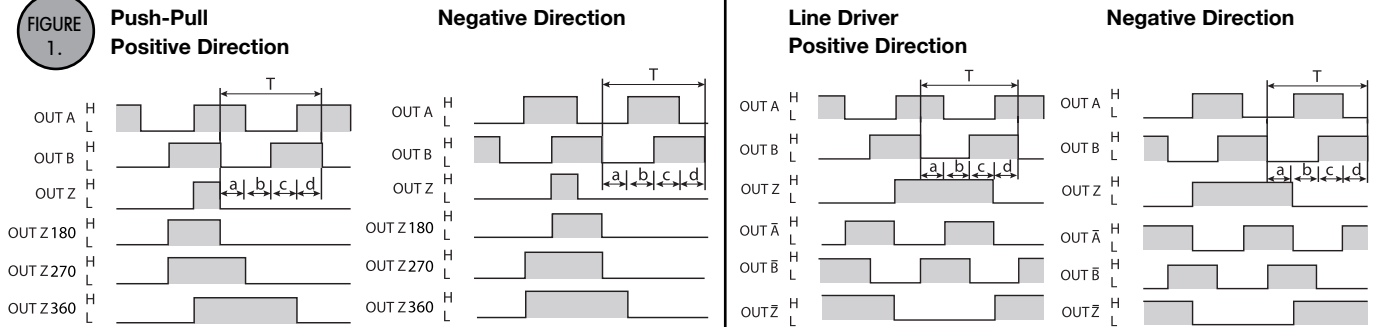
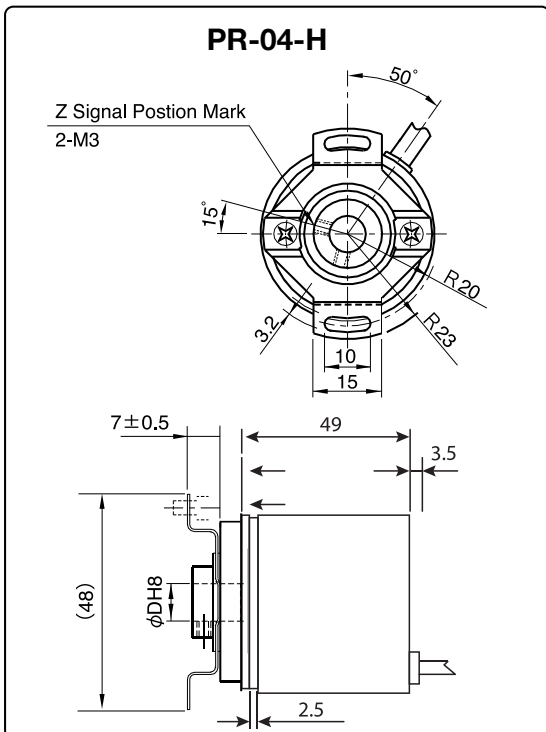
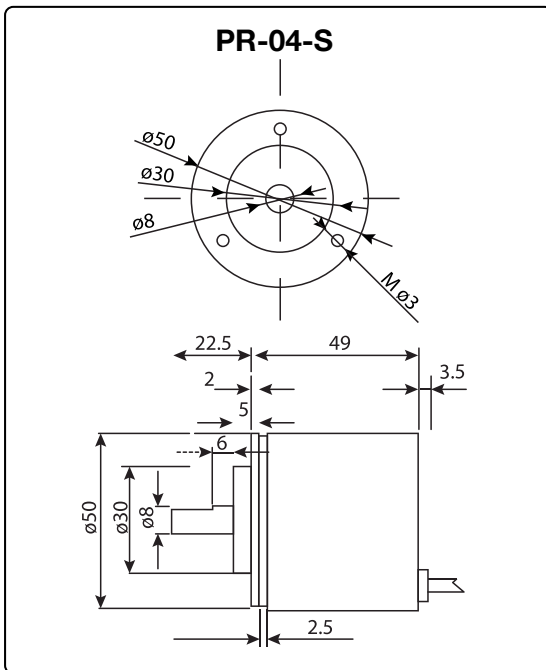
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Software

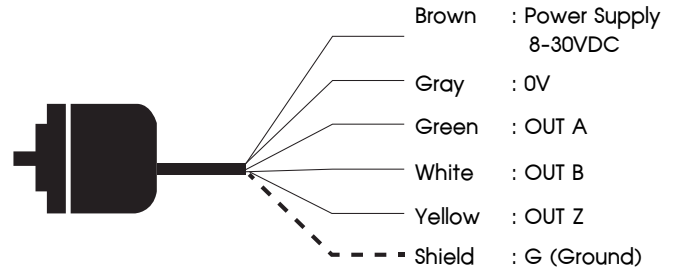
Accessories Converter + USB Cable + Software

GRAPH OF ENCODER OPERATION

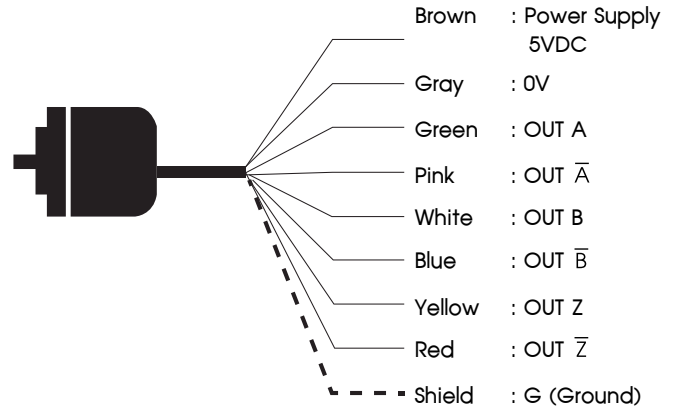
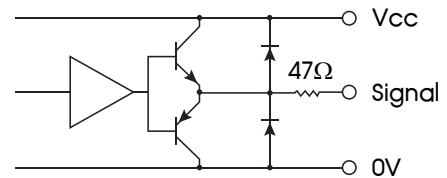
FIGURE 1.


DIMENSION

WIRING DIAGRAM
Push-Pull

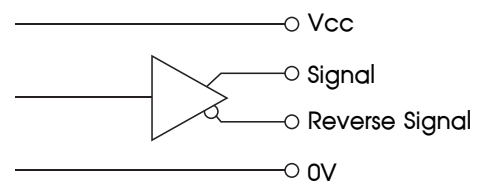
The Shielded Wire is Connected to the main body.


Line Driver

The Shielded Wire is Connected to the main body.


CIRCUIT OF OUTPUT SIGNAL


Push-Pull



Line Driver

ACCESSORIES FOR MODEL PR-04-SERIES

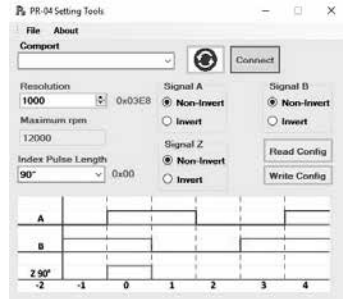
Using of PR-PRO for Pulse/ cycle Setting

1. Connect the USB between the PR-PRO and the PC and connect the cable to the program pulse/ cycle value to Encoder PR-04

PR-PRO



Exemple Software



2. Open the PR-04 SettingTools program and select the Comport of the PR-04. You can find the Comport number atWINI O's Device manager
3. Click Connect. The program will read the configuration on the PR-04 or press Read Config to read the value.
4. Set the value and click Write Config. The value is set and written into RP-04

ORDERING CODE

PROGRAMMABLE INCREMENT ENCODER

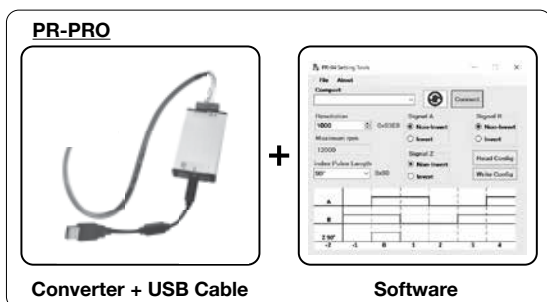
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TYPE		PULSE/REVOLUTION		SIGNAL OUTPUT	
S	Shaft	100	100 PULSE/Revolution (Standard) Can Programalde From1-16,384 PULSE/Revolution	None	PUSH-PULL 8-30VDC (Supply)
H	Hollow-Shaft		XXX	Can specify Default PULSE/Revolution From 1-16,384 PULSE / Revolution As required	L

ORDERING CODE

Accessories Converter + USB Cable + Software

PR-PRO



ORDERING CODE

Accessories Coupling

PR-02-08

** Remark Coupling connect with PR-04-5, 8 mm

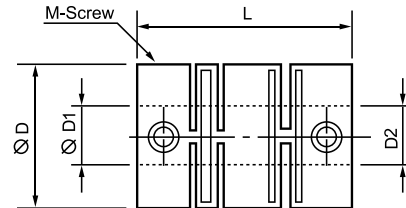
ACCESSORIES

PR-02-08 COUPLING for PR-04-S



- For PR-04-S
- It is a connector for connecting the Encoder to Load or Motor

DIMENSION



Model	D1/D2	L	D	Torque	Angular	Material
PR-02-08	8/8 mm.	25 mm.	22 mm.	2 N.m.	5 องศา	Polyester Resin