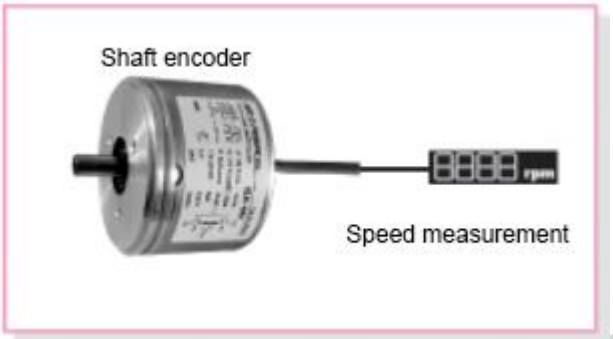
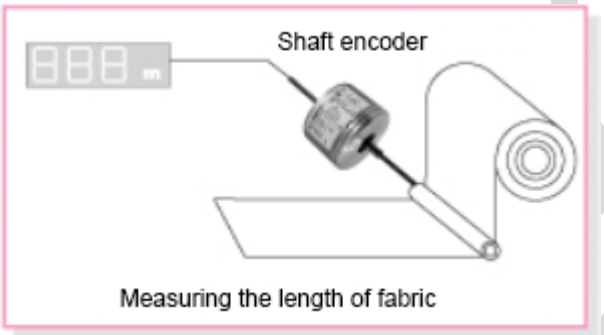
Incremental shaft encoder

The shaft encoder is used to convert rotary motion into electrical pulses. The pulses sent from the encoder's output are analyzed by appropriate electronic circuits.

Applications:

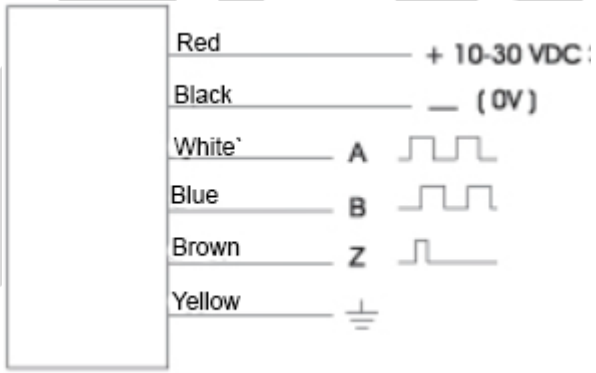
Some applications of the shaft encoder include:





The shaft encoder can be used in various applications, such as determining the shaft position (in terms of angle), determining the direction of rotation, and more.

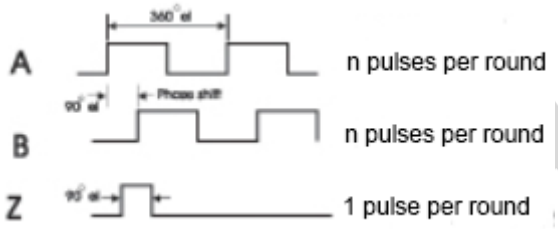
Shaft Encoder Connections:



The shaft encoders produced by TabrizPeguh are of the incremental type, generating a specific number of pulses per revolution at the output.

Number of Outputs:

The shaft encoder has three outputs as follows:



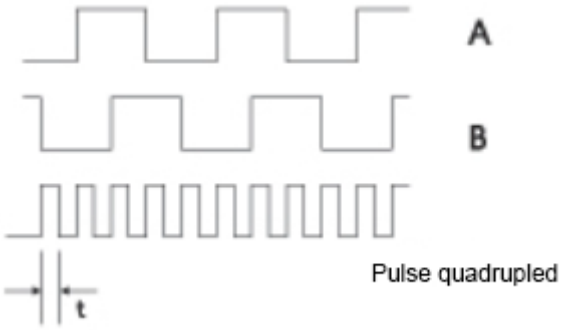
Output B has a 90-degree electrical phase difference relative to Output A and can be used for the following purposes:

Determining the Direction of Rotation

Using outputs A and B, the direction of rotation can be detected with the help of a flip-flop circuit.

Quadrupling the Number of Pulses per Revolution

This is achieved using an electronic circuit.



Note: The pulse width (t) must be designed such that at the maximum rotational speed, the pulses do not overlap.

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