

COMPONENT ENCODER SHAFT

1. Description

Provides conveyor movement data (speed/distance)

2. Functions

- Tracks conveyor movement for encoder-based logic

3. I/O and Signals

Signal Name	Type	Description	Panel
ENCODER_A	DI	Encoder A channel	PANEL_CONTROL_RIO
ENCODER_B	DI	Encoder B channel	PANEL_CONTROL_RIO

4. Interlocks & Safety

- Speed mismatch can trigger alarm

5. Dependencies

- Used by tracking and spacing systems

6. Alarms

Alarm ID	Condition	Message
A_ENC_01	Encoder loss	"Encoder Error"

7. HMI / Operator Interaction

- Live speed/distance feedback