

PANEL SUBSYSTEM HSLA

1. Description

Handles high-speed lane adjustment for products in transit.

2. Functions

- Adjusts lanes based on the product's size and configuration.
- Works with diverters and other transport mechanisms.

3. I/O and Signals

Signal Name	Type	Description	Panel
HSLA_ADJUST_CMD	DO	Activate lane adjustment	PANEL_CONTROL_RIO
HSLA_POSITION_FB	DI	Feedback on lane position	PANEL_CONTROL_RIO

4. Interlocks & Safety

- Inhibits lane adjustment during transport or jam.

5. Dependencies

- Dependent on PHOTO_EYE_TRK for item detection.

6. Alarms

Alarm ID	Condition	Message
A_HSLA_01	Lane adjustment failure	"HSLA Fault"

7. HMI / Operator Interaction

- Lane position indicator on HMI.
- Manual lane override option.