**PANEL\_CONTROL\_SORTER**

**1. Description**  
Controls sorting mechanisms including diverters.

**2. Functions**

* Activates diverters to direct packages.

**3. I/O and Signals**

|  |  |  |  |
| --- | --- | --- | --- |
| **Signal Name** | **Type** | **Description** | **Panel** |
| SORT\_ACTIVATE\_CMD | DO | Activate sorting arm | PANEL\_CONTROL\_RIO |
| SORT\_FEEDBACK | DI | Sorter in position | PANEL\_CONTROL\_RIO |

**4. Interlocks & Safety**

* Prevent sorting if jam detected

**5. Dependencies**

* Dependent on barcode scan & route decision

**6. Alarms**

|  |  |  |
| --- | --- | --- |
| Alarm ID | Condition | Message |
| A\_SORT\_01 | Sorter not responding | "Sorter Fault" |

**7. HMI / Operator Interaction**

* Sorter test mode
* Display sorter status