**COMPONENT DIVERTERS**

**1. Description  
Mechanisms to route parcels to different destinations.**

**2. Functions**

* **Engage diverter arm to redirect flow**

**3. I/O and Signals**

|  |  |  |  |
| --- | --- | --- | --- |
| **Signal Name** | **Type** | **Description** | **Panel** |
| **DIVERTER\_ACTIVATE** | **DO** | **Activate diverter** | **PANEL\_CONTROL\_RIO** |
| **DIVERTER\_POSITION\_FB** | **DI** | **Confirm diverter position** | **PANEL\_CONTROL\_RIO** |

**4. Interlocks & Safety**

* **Jam or fault inhibits diverter action**

**5. Dependencies**

* **Based on scanner or system routing logic**

**6. Alarms**

|  |  |  |
| --- | --- | --- |
| **Alarm ID** | **Condition** | **Message** |
| **A\_DIV\_01** | **Diverter stuck** | **"Diverter Jam"** |

**7. HMI / Operator Interaction**

* **Manual diverter override**
* **Status indication**