

Narrow Belt Controller

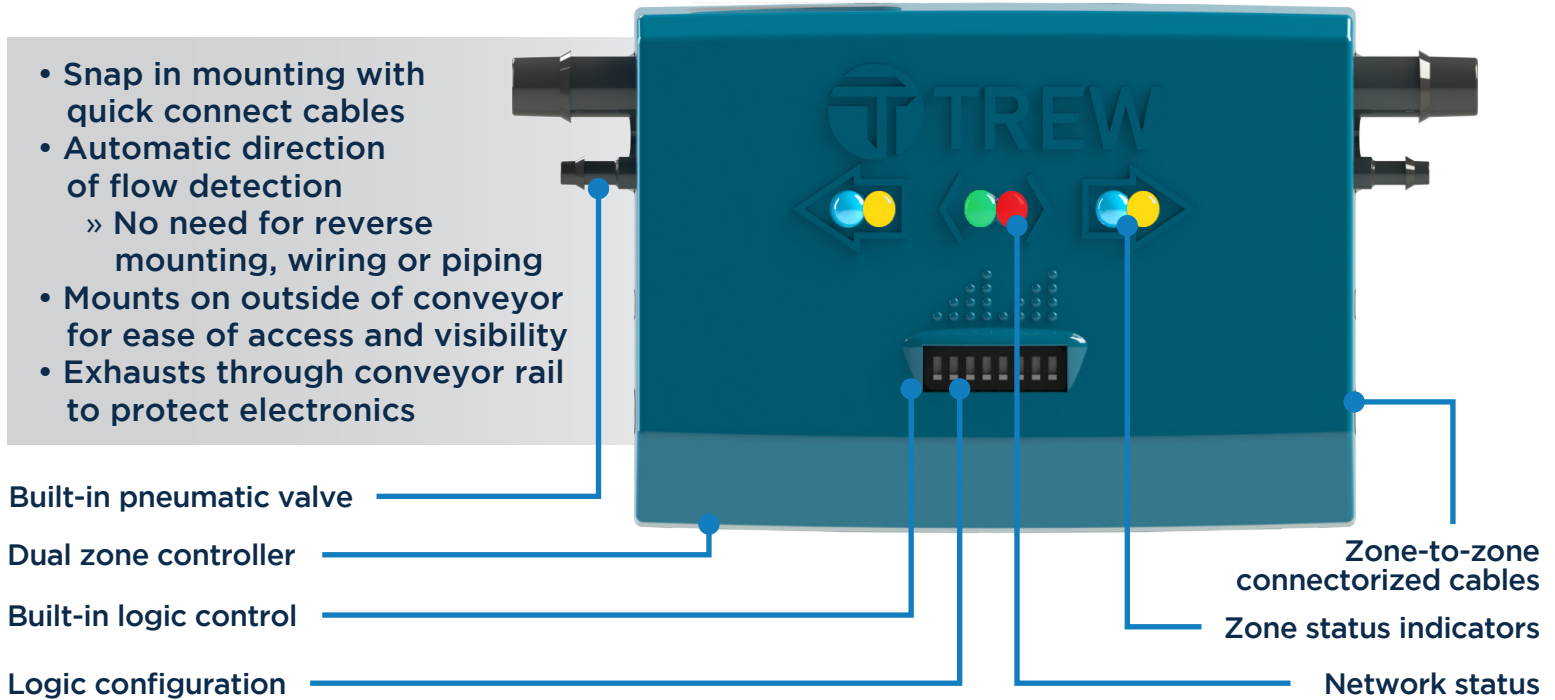
Zone Control Module

POWERED BY
TREW[®]

The Narrow Belt Controller provides industry-leading functionality and diagnostic features factory mounted and ready for installation. The pneumatic dual zone controller provides “on conveyor” logic for Standard Singulation, Local Singulation, and Auto-Slug accumulation modes, Slug and Singulation release options, and settings that enable increased efficiency and maximum product density.

Each controller provides high-visibility indicators to help maintenance and operations quickly identify accumulation behavior, individual zone health, accumulation network status and jam conditions. Easy to integrate interface modules allows for lane full photoeye kits and slug release modules to be added to the network as needed

- Snap in mounting with quick connect cables
- Automatic direction of flow detection
 - » No need for reverse mounting, wiring or piping
- Mounts on outside of conveyor for ease of access and visibility
- Exhausts through conveyor rail to protect electronics



| LED STATUS INDICATIONS | ZONE | Blue LED Singulation active | Yellow LED Auto-Slug active | Flashing Blue/Yellow LED Conveyor Jam | OFF Gravity/Coast |
|------------------------|---------|--------------------------------|---------------------------------------|------------------------------------------------|---------------------------------------|
| | NETWORK | | Green LED Good power/communication | Flashing Green LED Communication disruption | Red LED Power cycle initialization |

KEY FEATURES AND BENEFITS

- Modules factory mounted ready for operations
- On-conveyor configuration without needing programming devices
- 24VDC control modules with pneumatic valve
- System interface module with 24VDC or 120VAC release input
- Dipswitch selection for accumulation and release modes, definition of multiple slug zones, accumulation delay times, and disabling a zone
- Integral zone-to-zone snap to connect cable supplies communication and power

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Specifications:

Temperature/Environmental

- Operating Range = 0° to 55°C
- Storage Range = -40° to 70°C
- Environmental Protection = IP 52
- Approvals = RoHS compliant

Electrical



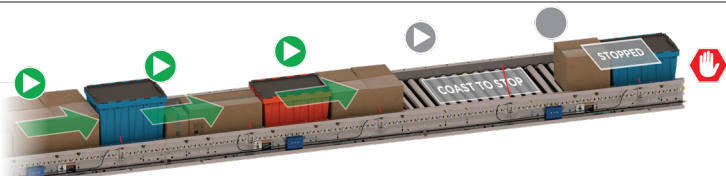
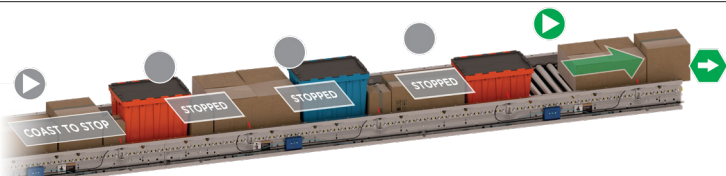
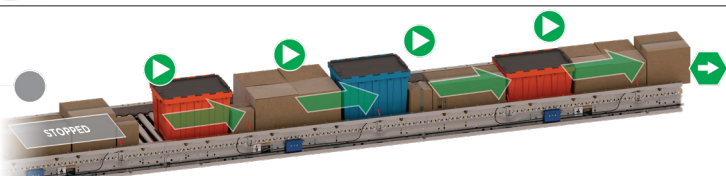
- Voltage = 21.0 - 28.0 VDC
- Amperage = 0.08 Amps NOM
- 35 modules per factory supplied 24VDC power supply

Pneumatic Integral Valve

- Actuator = 10-20 PSI compressed air
- Filtration = 40 micron recommended
- Wetted Materials
 - » Stainless Steel, Akulon (K224-G3)
 - » Nickel Plated Steel, NBR Seals

Network

- 100 modules per network
- 24VDC Release Signal (solid state relay included with end idler for 24VDC or 120VAC IO point)

| OPERATION MODES | | |
|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode | Release Efficiency* | Description |
| Singulation | 50% | When a photoeye is blocked, the upstream zone is set to accumulate (stops driving). Zones release product when the downstream photoeye is unblocked.  |
| Local Singulation | 50% | When any two consecutive photoeyes are blocked, the upstream zone is set to accumulate (stops driving). Zones release product when the downstream photoeye is unblocked.  |
| Auto-Slug | 75% | Zones are not set to accumulate until all downstream zones are blocked. When the downstream most zone becomes unblocked, the segmented slugs will begin to move as one for high product density retention.  |
| Singulation Release | 50% | System supplied signal causes a zone of product to release to downstream conveyor with at least one zone of gap between successive zones.  |
| Slug Release | 95% | System supplied signal causes a fixed length group of zones (slug) to release with them turning on simultaneously. The slug length is defined by the location of the slug terminator (dipswitch activated).  |

*Release efficiency product and application dependent

| ACCESSORIES | | |
|--------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------|
| Part # | Part Name | Description |
| 1005769 | Release Module | Compatible with either 24VDC or 120VAC signals, ships standard with end idlers |
| 1005768 | Power Supply | 120VAC IN, 24VDC OUT, Class 2 Power Supply - One needed for every 210' of conveyor |
| 10230-060718 | Power "T" Connector | Used in conjunction with power supply |
| 10230-060713 | Power Isolation Cable | 6.5" power isolation used when multiple power supplies are on one network |
| 10230-060714 | Extension Cable | 60" Connection cable |
| Upstream: 10230-060715, 10230-060716 Downstream: 10230-060717, 10230-060719 | Network Terminator | Terminates controller network, ships standard with end beds |