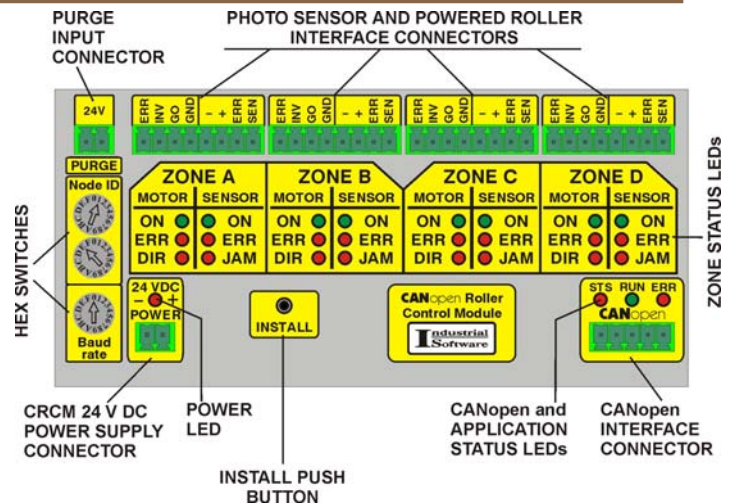


CRCM

CANOpen Conveyor Zone Control Module

Features

- Communications – CANOpen
- Baud rates supported – 1000, 500, 250, 125 Kbaud
- Interface – up to 4 sensors & 4 brushless DC motors
- Bi-direction driving of brushless DC motorized rollers
- Roller only turn when product (cartons) are present
- Accumulation, transfer, singulation & train modes
- Motor error detection and reporting (overload, overheat, motor not present)
- Conveyor Jam detection and reporting
- Sensor error detection and reporting (marginal gain)
- Built in functions for 2:1 and 3:1 merging
- Full galvanic isolation



ConveyTrax CRCM Module uses terminal block connections only

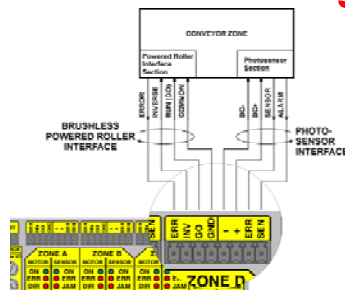
Introduction

The CANOpen Powered Roller Control Module (CRCM) provides an integrated control solution for conveyor and motor control applications using CANOpen communication technology. The CRCM is the conveyor control portion of the ConveyTrax™ architecture. The module can be configured to act as linear transfer or merge module. The benefits of such a conveyor system include:

- Reduced audible noise
- Reduced energy consumption
- High level of system modularity
- Simple system maintenance, diagnostic and repair
- Plug and Play installation
- Increased roller life

The core of this system is the Powered Roller Control Module, which is designed using the CANOpen Protocol to provide maximum system functionality. Smart functions are built into the Module that provides control of various operational modes of the conveyor.

Functional Wiring



General Specifications

- Digital Inputs
 - 4 inputs - Motor error
 - 4 inputs - Sensor
 - 4 inputs - Sensor alarm
 - 1 input – Purge
- Nominal Input Voltage: 11~ 35V DC
- Input Current - from 6 up to 30mA (IEC 61131-2 standard)
- Logic 1- from 11 up to 35V DC (IEC 61131-2 standard)
- Logic 0- from 0 up to 5V DC (IEC 61131-2 standard)
- Digital Outputs
 - 4 outputs - Motor run (go)
 - 4 outputs – Motor inverse
- Power requirement:
 - Nominal: +24VDC/ 120mA (excluding motor power and current draw from photoelectric)
 - Voltage Range: 18V to 30VDC
- Operating temperature: -20°C ~ +80°C
- Storage temperature: -40°C ~ +85°C
- Humidity: 5 ~ 95% RH, non-condensing
- Vibration: 2G, at 10 to 500 Hz
- Isolated voltage:
 - DC/DC converter from power supply – 1000VDC
 - CAN network – 1000VDC
 - Photo-coupler from Input/ Output – 5,3kVrms
- Mounting: via Screws, rivet or adhesives
- Electromagnetic compatibility: IEC 801, Level3
- Dimension: 160mm x 90mm x 45mm (approximate)

This document is for reference purposes only. Please refer to CRCM Specification and Installation Guide for complete details.