

EDIP Calculation Module

- Enables Coperion Enhanced Dilute Phase conveying
- Energy saving control algorithm
- Reduced material degradation
- Reduced equipment wear
- Easy to install
- Up to 8 individual convey lines served by one module

Application

The EDIP Calculation Module is an innovative way to distribute the Coperion proprietary Enhanced Dilute Phase control algorithm for use with dilute phase pneumatic conveying control systems.

With the ability to communicate over various industrial Ethernet network protocols, this module may be used with existing PLC, DCS and PC-based control systems to optimize control of material convey velocity. The result of employing this control module is energy savings (compared to typical dilute phase operation) and reductions in degradation and wear associated with high velocities.

Equipment

The small din rail mounted module contains only the necessary blower speed calculations for optimal conveying efficiency. All other logic for the pneumatic conveying system is handled by the plant control system.

Enhanced Dilute Phase conveying requires the following equipment for full function:

- Pressure or vacuum dilute phase conveying system using a positive displacement blower
- Pressure/vacuum transmitter
- Variable speed drive controlling blower motor

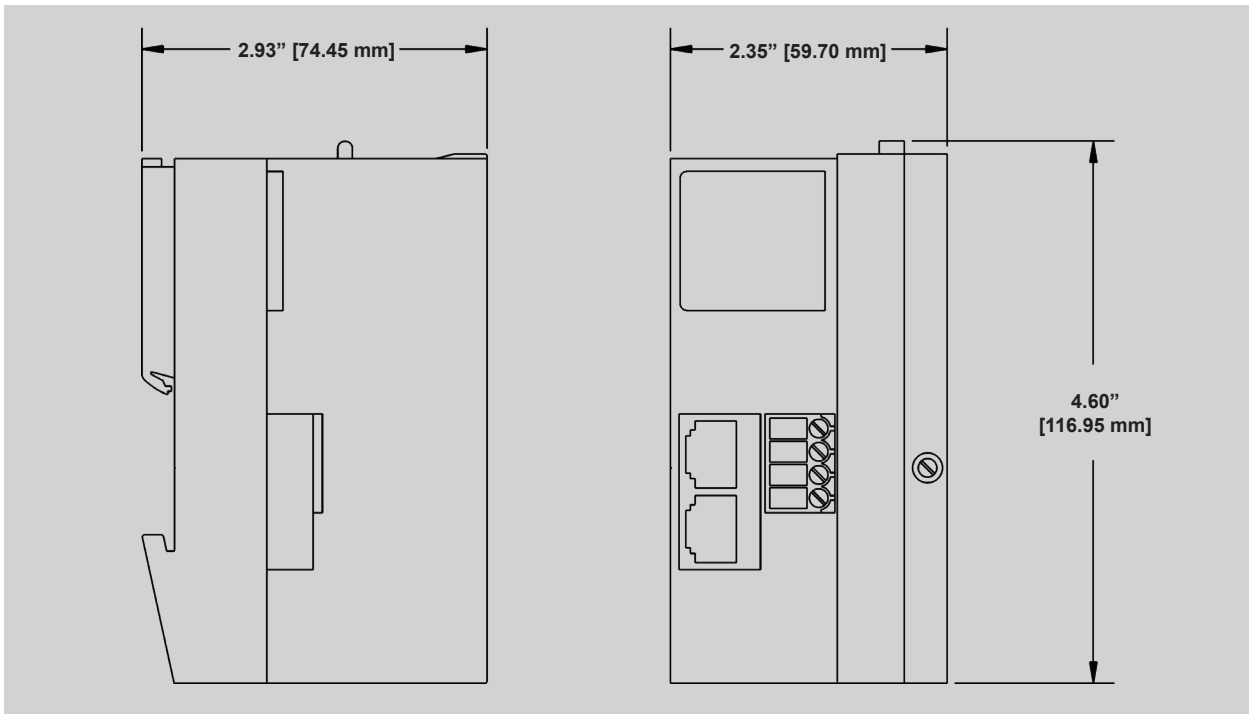
Function

The EDIP calculation module contains the following functions:

- Blower speed calculation
- Licensing available for 1 to 8 calculation sets per module
- Module health monitoring
- Web page configuration



Dimensions



Technical data

Power requirements	18 ... 30 VDC, 1.3A
Temperature range	-20 °C ... +60 °C
Protection Class	IP20
Approvals	CE UL
Fieldbus Interface	RJ45 connector 10/100 Mbps Full/Half Duplex Auto Negotiation Auto Crossing Static IP
Fieldbus Protocols	Ethernet/IP Modbus TCP Profinet

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