

MPU Expander x3

DATA SHEET



Key features

DIN rail enclosure that reduces the need of special mounting.
W x 55 mm, H x 75 mm,
D x 110 mm

Alarms (relay output)
MPU failsafe relay

Three MPU signal outputs connected to various devices (e.g. Si-TEC *Xtend* Governor, Opal II Annunciator, tachometers, etc.)

Overview

The MPU Expander x3 measures a direct signal from a MPU speed sensor, and provides 3 x isolated speed signal outputs (square wave).

This provides flexibility in applications where there may be limitations in mounting additional MPU speed sensors on the housing / bracket near the sensing ring gear.

The MPU Expander x3 is typically used in conjunction with a Si-TEC *Xtend* governor control (e.g. CGC, ADG, etc.) and Opal II Annunciator display unit, however, it may also be used as a standalone device (e.g. to local and remote tachometers, etc.).

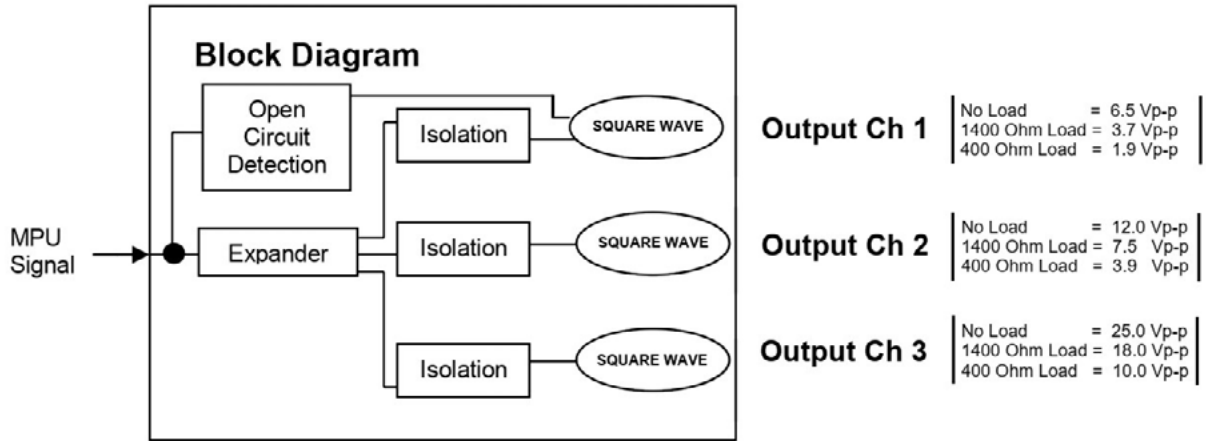
The DIN enclosure offers easy installation, ensuring that there is no need for special mounting arrangements. The MPU Expander x3 also includes a failsafe relay output which provides an alarm upon MPU input failure.

Applications

Used with Si-TEC *Xtend* control and Opal II annunciator display devices in:

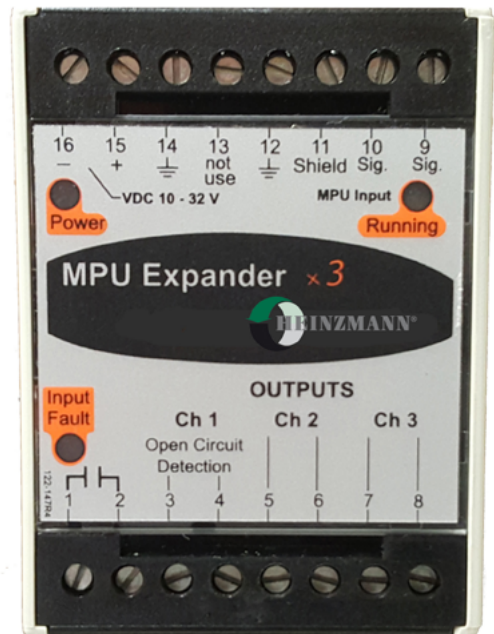
- Power generation
- Process (sugar, paper, etc.)
- Mining
- Oil & gas
- Commercial buildings
- Defence
- Telecommunications facilities
- Hospitals and other critical applications

MPU Expander x3 block diagram

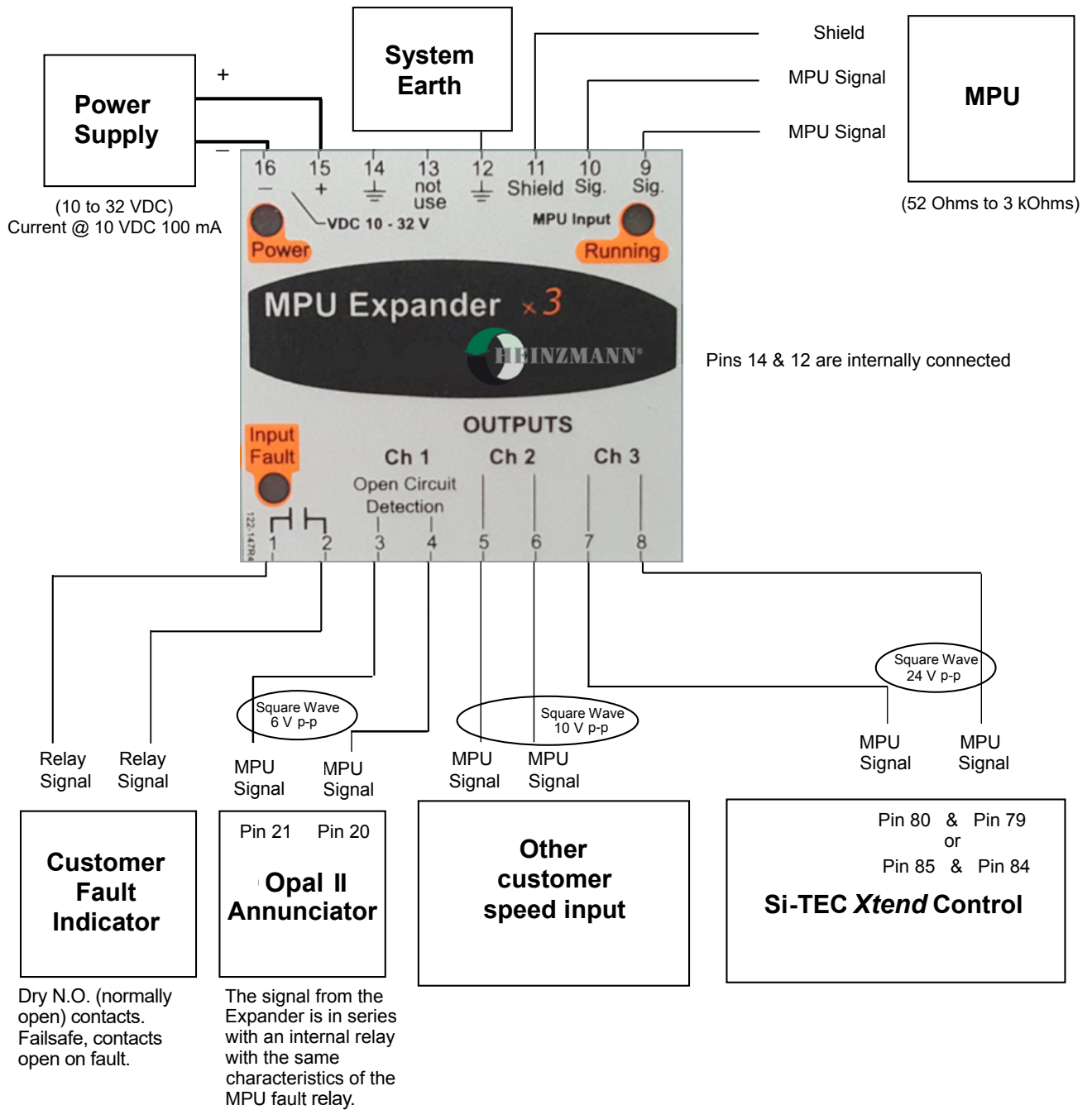


Specifications

Dimensions	W x 55 mm, H x 75 mm, D x 110 mm
Weight	210 grams
Power supply	24 VDC nominal (10 - 32 VDC)
Max. ripple	1 V p-p
Frequency	From 10 Hz to 25 kHz (sine wave minimum amplitude signal 800 mV rms @ 10 Hz and 1100 mV rms @ 25 kHz)
Input impedance	10 kΩ
MPU output channels	3 x isolated channels
Open MPU circuit	Failsafe relay
MPU sensors	52 Ohms to 3 kOhms
Relay output	Rated load 0.5 A @ 30 VAC; 1A @ 30 VDC (resistive load)
Operating temperature range	0 - 60 degrees Celsius



Typical application overview



MPU Expander x3 dimensional drawings (side & top view)

