IECO Scan Amplifier Interface

Features

- Allows connection from IECO GIU to Pyramid M10 I/O devices with standard screened cable
- Current demand, current feed-back, voltage feedback and digital lines
- Provides power to M10 devices
- Supports dual redundant LEM precision current sensors
- Provides signal conditioning for LEM sensor outputs
- Compact format designed to fit inside IECO cabinet

Applications	• Interfacing IECO scan amplifiers to Pyramid controls

Specifications

Amplifier interfaces	Two, independent (X and Y axes) suitable for direct connection to IECO GIU 15-pin connectors.
M10 interfaces	Three, for X amplifier channel control, Y amplifier channel control, redundant current sensor readout.
LEM sensor support	Power and readout compatible with LEM IT400 and LEM IT700 sensors.
LEM signal conditioning	Burden resistor 2.50 ohm 1 watt. Differential amplifier voltage gain 14.05. Conversion gain for IT400 sensor 0.0175 V A-1. Conversion gain for IT700 sensor 0.0200 V A-1. Low pass filtering four pole 15 kHz (- 3dB)

Specifications (continued)

Power output	Three +24 VDC outputs for M10 power. Two +15 VDC outputs for LEM sensor power, 1A max. Fused 1.1A. Two –15 VDC outputs for LEM sensor power, 1A max. Fused 1.1A.
Power input	+24 +/-2 VDC, 1100 mA max. Fused 1.1 A.
Indicators	Three LEDs, +24 V power, +15 V power, -15 V power
Case	Stainless steel sheet with mounting flange, IP43.
Weight	0.27kg (0.59 lb)
Operating environment	10 to 35C, < 80% humidity, non-condensing, vibration < 1g all axes, 1 to 100Hz
Storage environment	0 to 50C, < 80% humidity, non-condensing, vibration < 2g all axes, 1 to 100Hz

Connectors

+24 VDC input

2.1 mm threaded jack. Mate with Switchcraft S761K or equivalent.
Pin: +24 VDC; Shell: 0V

Power routed to M10 devices via DSub connectors

IECO GIU interface

Two (X and Y axes), 15 pin DSub female

1	n/c	9	Current program +
2	Current program -	10	n/c
3	n/c	11	Reset
4	Voltage monitor +	12	Voltage monitor -
5	Enable	13	Current monitor +
6	DGnd	14	Status
7	Current monitor -	15	n/c
8	n/c		

LEM sensor interface

Two (X and Y axes), 9 pin DSub female

1	Signal -	6	Signal +
2	n/c	7	n/c
3	n/c	8	n/c
4	AGnd	9	+15 VDC
5	-15 VDC		

Connectors (continued)

M10 (axis control) Two (X and Y), 25 pin DSub male

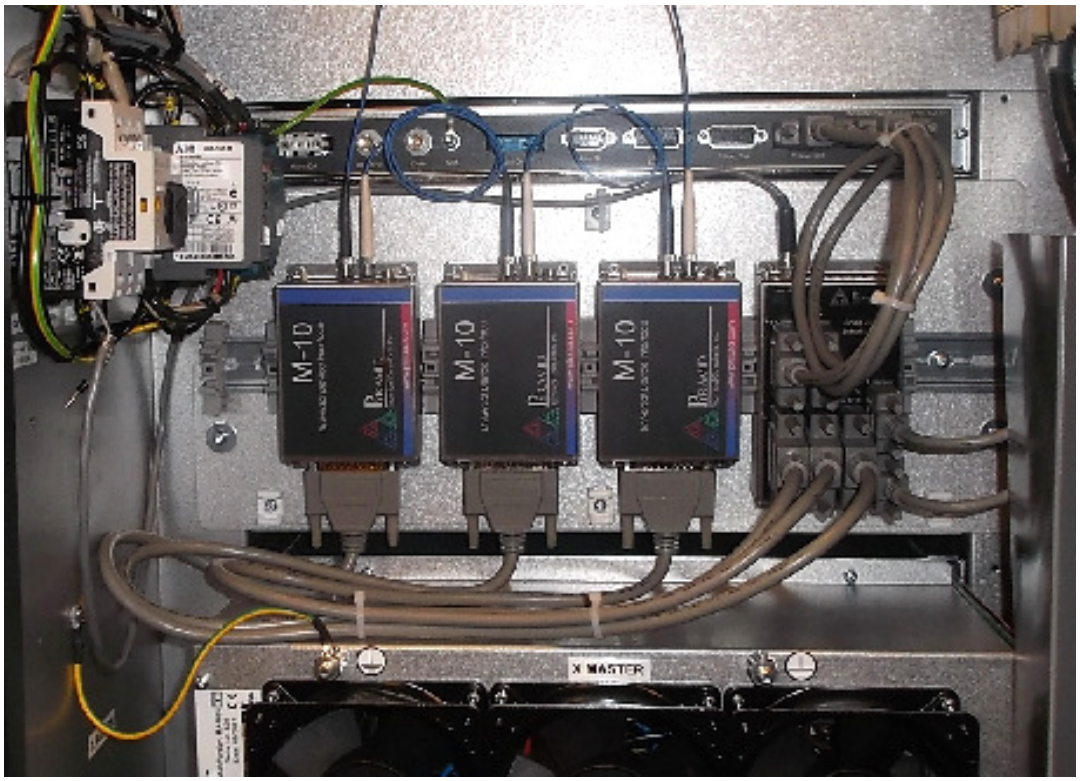
1	PSU 0V (24V return)	14	+24 V DC
2	n/c	15	n/c
3	Current monitor +	16	Current monitor -
4	Enable	17	Reset
5	Voltage monitor +	18	Voltage monitor -
6	Current program -	19	Current program +
7	n/c	20	n/c
8	n/c	21	n/c
9	DGnd	22	n/c
10	n/c	23	n/c
11	n/c	24	n/c
12	n/c	25	Status
13	n/c		

M10 (LEM sensor read) One, 25 pin DSub male

1	PSU 0V (24V return)	14	+24 V DC
2	n/c	15	n/c
3	Sensor 1 (X axis) signal	16	AGnd
4	n/c	17	n/c
5	Sensor 1 (Y axis) signal	18	AGnd
6	n/c	19	n/c
7	n/c	20	n/c
8	n/c	21	n/c
9	n/c	22	n/c
10	n/c	23	n/c
11	n/c	24	n/c
12	n/c	25	n/c
13	n/c		

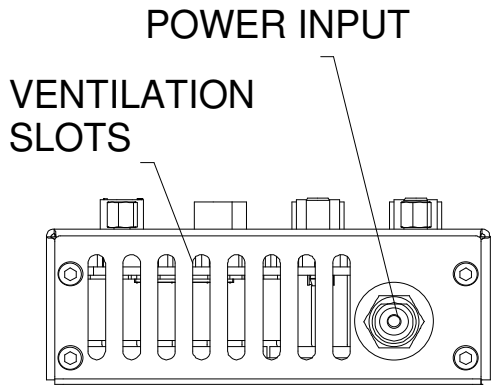
Ground Case grounded via mounting flange

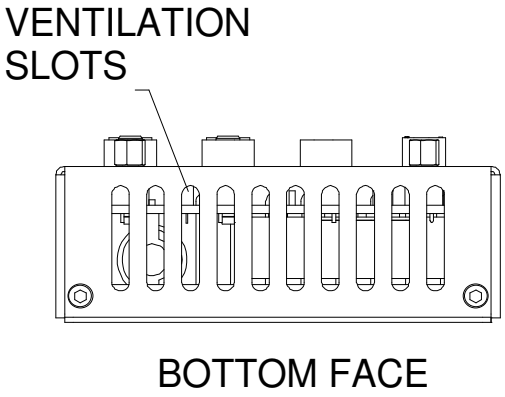
Typical installation



M10 signal allocation

M10	Signal	Allocation
X or Y control	AO_01	Current demand
	AI_01	Current monitor
	AI_02	Voltage monitor
	DO_01	Enable (high to enable)
	DO_02	Reset (pulse low to reset)
	DI_01	Status (high = good)
LEM sensor readout	AI_01	Sensor 1 (X axis)
	AI_02	Sensor 2 (Y axis)





Ordering information

X32	Interface adaptor for two-channel IECO amplifier
MTG-DIN35-13962	DIN rail mounting adaptor
CAB-D15F-2.5-D15M	Cable, 15-way screened, 15 pin DSub female to 15 pin DSub male, 2.5'. Two required.
CAB-D9F-2.5-D9M	Cable, 9-way screened, 9 pin DSub female to 9 pin DSub male, 2.5'. Two required.
CAB-D25F-6-D25M	Cable, 25-way screened, 25 pin DSub female to 25 pin DSub male, 6'. Three required.

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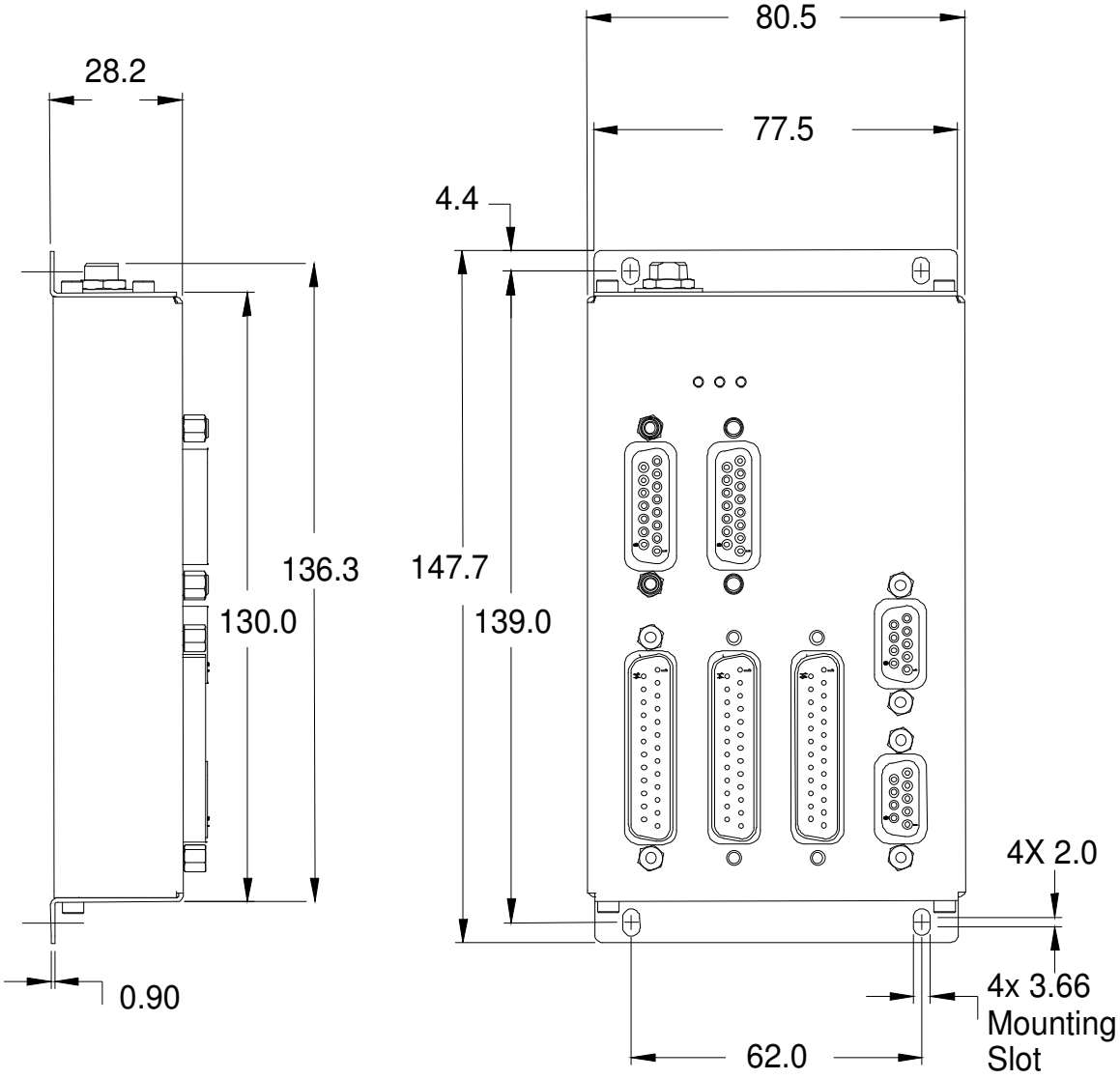
80.5
77.5
28.2
4.4
136.3
130.0
147.7
139.0
4X 2.0
0.90
4x 3.66
Mounting
Slot
62.0

Dims mm