
	Document: Technical Description Version: 2 Status: actual Author: bs Date: 02-04-08 Approved: ro Date: 02-04-08 File: PC	EAM122 GAC to VOLVO EMS Interface Module GAC PIB 4077 (March 2001)	 Tel.: + 41-62-916 50 30 Fax. + 41-62-916 50 35 www.huegli-tech.com
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EAM122

GAC to VOLVO EMS INTERFACE MODULE

Introduction

The EAM122 is an electronic interface module designed for use with the Volvo EMS engine control system. The module accepts a nominal 5V DC input signal and converts this signal to a 2.9V DC analog signal for the EMS control across a galvanic isolated barrier. Typical usage is as a signal conditioner between a GAC auto-synchronizer / load sharing system and the EMS engine control. The power to operate the interface comes from the 24V DC on the engine side (EMS) of the application.

Wiring

See Wiring Diagram.

Note: The common battery minus connection between the EMS system, EAM122, and the GAC auto-sync and load sharing system should be as direct as possible electrically (minimum voltage difference).

Specifications

Input impedance	(Terminals 6 & 5)	200 Kohms
Input DC voltage (nominal)	(Terminals 6 & 5)	5.0V DC
Output impedance	(Terminals 3 & 4)	100 ohms
Nominal output voltage	(Terminals 3 & 4)	2.9V DC
Output voltage range	(Terminals 3 & 4)	2.4 to 3.4V DC
Transfer function		-0.2 volts/ volt
DC supply voltage range	(Terminals 1 & 2)	15 - 32V DC
Supply current	(Terminals 1 & 2)	75mA
Temperature range		-40° to + 85° C
Isolation barrier rating	(Terminals 2 & 4)	1000V DC



Engine
Governing
Systems

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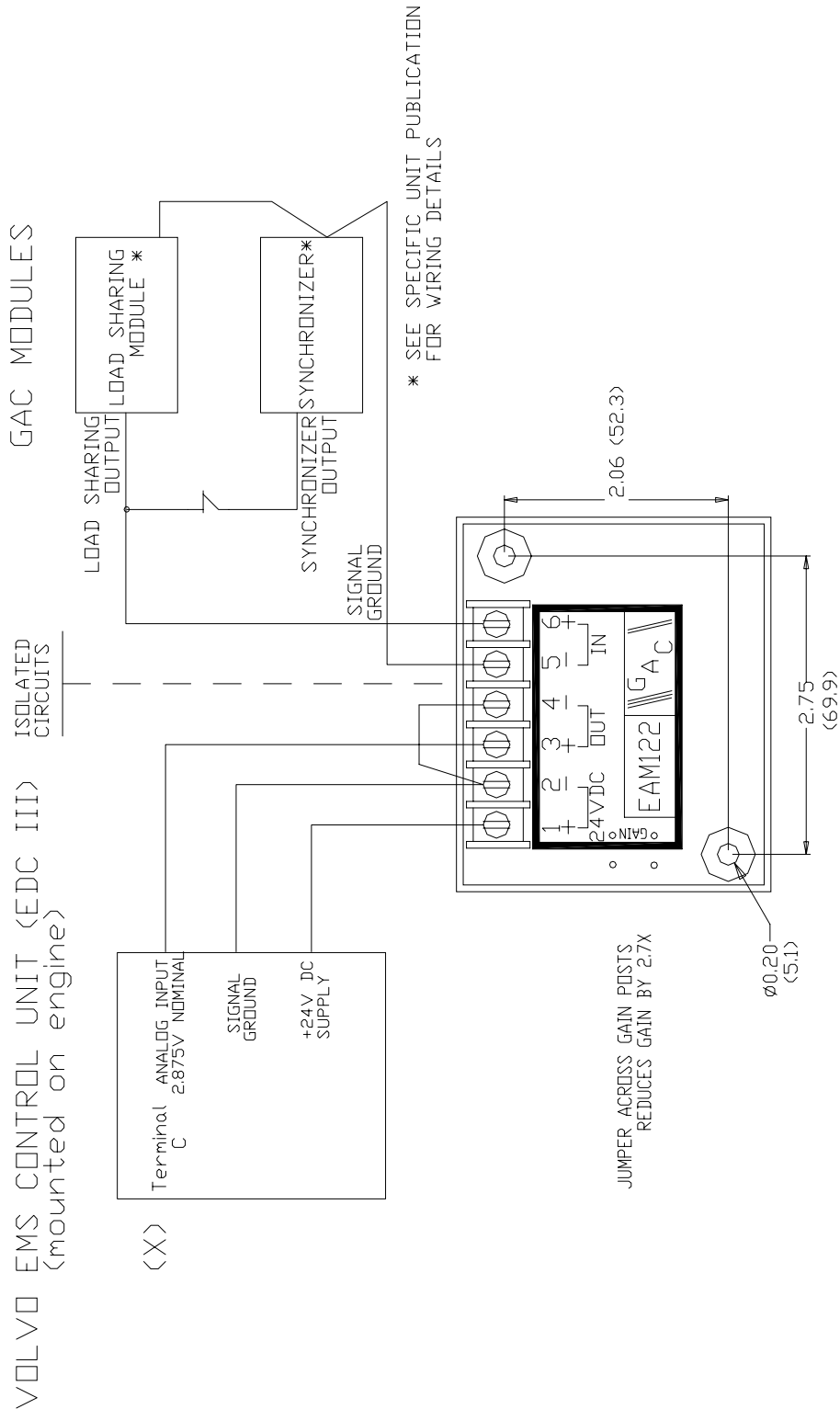
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Wiring Diagram WD184



(X) If an external CIU (customer interface unit) is used, use cable marked "SPEED CONTROL, POT SIGNAL"