



DIN 43650-Form A Connector

Terminal	Function
1	Supply Common
2	+V Supply
3	Command Input
4	790-2B***-Command Common
4	790-2C***-+5V Reference
4	790-2D***-Enable Input



The Embedded Electronics Amplifier is a compact, low profile coil/controller combination for use with proportional solenoid valves. The Amplifier provides current to the coil in proportion to an input signal. Bright LED indicators on the unit provide an overview of the operating status. Setup is accomplished through Sun's Amplifier Set Up Software or the Hand Held Programmer (HHP). There is no cover to remove and no tiny pots to set. Once configured, the settings are stored in permanent memory within the unit.

TECHNICAL DATA

Supply Voltage	Equals coil voltage within +/-10%
Supply Current	I(sol) + 20mA
Output Current	600 mA
Dither Frequency	Off, 80-300 Hz, in 20 Hz increments
Ramp Time	0-120.0 s, 0.5 s increments
Operating Temperature Range	-20 - 70 °C
Enclosure	Glass filled nylon with Lexan light pipes, polyurethane potting compound
Analog Input Range	0-20 mA
Analog Input Impedance	250 ohms
Card Function	Ground Option
Voltage/Frequency	24 VDC
Connector	ISO/DIN 43650, Form A, 4-pin
Connector Environment Rating	IP65
Model Weight	0.20 kg.

NOTES A source type input is required. A sinking type analog input will damage the amplifier.

USED WITH

FMDA	FMDB	FPCC	FPCH	FPFK	FPHK	PRDL	PRDM	PRDN	PRDP
PSDL	PSDP	RBAN	RBAP	991700	991702	991704			

TECHNICAL FEATURES

- Easily configured using Sun's Amplifier Set Up Software or the Hand Held Programmer.
- LED indication of Status and Output Current
- Standard DIN 43650-Form A Connector - 4 pin
- Selectable dither frequency up to 300 Hz including OFF. Sun's recommended dither frequency is 140 Hz.
- Adjustable current limited output with short circuit protection
- All input and output limits are independently adjustable
- Adjustable ramp up and ramp down times, independently set
- Microprocessor controlled for consistent, reliable performance
- The coil is magnetically symmetrical and can be mounted in either direction on the solenoid tube without affecting performance.
- Separate supply and command common
- Glass filled nylon enclosure with Lexan light pipes and polyurethane potting compound
- Power cable with mating connector is required and is not included with product.
- CE approved - See **CE Testing Results and Explanation**, document number 999-991-260, for details