



DIN 43650-Form A Connector

Terminal	Function
1	Supply Common
2	+V Supply
3	Command Input
4	Command Common



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 downloadable app with a wireless bluetooth low energy connection. 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

Output Current	600 mA
Supply Current	I(sol) + 25mA
Dither Settings	Off, 33-500 Hz, in 1 Hz increments
Analog Input Range	0-10V, 0-5V, or 0-20mA
Analog Input Impedance	10 Kilo-ohms (Voltage Command Mode), 250 ohms (Current Command Mode)
Ramp Time	0-65.0 s, 1 ms increments
Card Function	Ground Option
Voltage/Frequency	24 VDC
Supply Voltage	18-32V, 24V recommended
Operating Temperature Range	-20 - 80 °C
Connector	ISO/DIN 43650A, Form A
Connector Environment Rating	IP65

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

USED WITH

FMDA FMDB FPCC FPCH FPHK PRDL PRDM PRDN PRDP PSDL
PSDP RBAN RBAP

TECHNICAL FEATURES

- LED indication of Status and Output Current
- Standard DIN 43650-Form A Connector - 4 pin
- 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
- Separate supply and command common
- Selectable dither frequency up to 500 Hz including OFF. Sun's recommended dither frequency is 140 Hz.
- CE approved
- Setup is accomplished through Sun's [AmpSet Blue™ app](#) with a wireless bluetooth low energy connection.
- Glass filled nylon enclosure with polyurethane potting compound
- Power cable with mating connector is required and is not included with product.

USED WITH

What models can this kit be used with?

- [FMDA](#) Electro-proportional 3-way flow control valve, meter in
- [FMDB](#) Electro-proportional 3-way flow control valve, meter in
- [FPCC](#) Electro-proportional flow control valve - normally closed
- [FPCH](#) Electro-proportional flow control valve - normally open
- [EPHK](#) Pilot operated, normally closed, electro-proportional throttle with reverse flow check
- [PRDL](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition
- [PRDM](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition - high pressure setting with no command
- [PRDN](#) Electro-proportional, direct-acting, pressure reducing/relieving valve, high pressure setting with no command
- [PRDP](#) Electro-proportional, direct-acting, pressure reducing/relieving valve
- [PSDL](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition and drain to port 4
- [PSDP](#) Electro-proportional, direct-acting, pressure reducing/relieving valve with drain to port 4
- [RBAN](#) Electro-proportional relief valve - pilot capacity, high pressure setting with no command
- [RBAP](#) Electro-proportional relief valve - pilot capacity