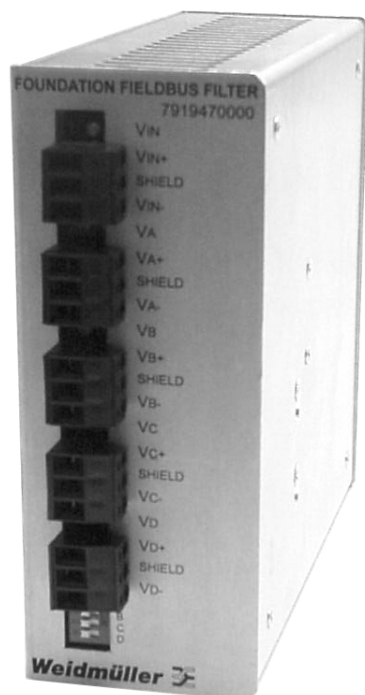


Foundation Fieldbus

Power Supply Filter



This new product acts as an interface between a switchmode power supply and Foundation Fieldbus network. It prevents the low impedance output of the power supply from attenuating the digital signal on the network and also prevents this signal from interfering with the feedback / regulation circuit in the power supply.

The filter module provides 4 separate outputs each limited to approximately 450mA. This allows a single power supply to operate 4 networks while maintaining the recommended maximum network current. In the event of a short circuit the module will limit the current to 450mA, thus preventing a fault in one of the networks from causing the power supply to turn off and disable the other 3 networks.

- mounts on 35mm DIN rail
- plug and socket connections
- short circuit protection allows use of any power supply on Foundation Fieldbus
- status LEDs
- optional end-of-line terminations (switch selectable)

Brasil

Weidmüller do Brasil Ltda.
Rua Antonio das Chagas,
439 - Sto. Amaro
04714-000 São Paulo SP
Telephone: (11) 5184 2484
Facsimile: (11) 5184 2483
Email: weidmuller@weidmuller.com.br

Canada

Weidmuller Ltd.
10 Spy Court
Markham, Ontario L3R 5H6
Telephone: (800) 268-4080
Facsimile: (905) 475-2798
Email: info1@weidmuller.ca
Website: www.weidmuller.ca

Mexico

Weidmuller, S.A. de C.V.
5 Sur No. 4311
Col. Huexotitla
72534 Puebla, Pue. Mexico
Telephone: (22) 37 2549
Facsimile: (22) 43 1981
Email: weidmull@acnet.net

United States

Weidmuller Inc.
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
Facsimile: (804) 379-2593
Email: info@weidmuller.com
Website: www.weidmuller.com

Foundation Fieldbus Power Supply Filter

Specifications:

Input	16-30Vdc, 2A nominal with all outputs at 450mA
Output	4 x (Vin - x) @ 450mA ±5% x= 8.5V @ -20°C (-4°F), 7V @ 25°C (77°F), 6V @ 70°C (158°F)
Current consumption (internal)	65mA per channel
Power LED	Green - 24V input
Channel Status LED	green - network OK LED pulses in fault mode. Rate of pulses varies with fault current i.e. at 50mA overcurrent the rate is slow while a short circuit causes the LED to turn off
Short circuit protection	when network current exceeds 450mA nominal, the voltage is reduced to 0V. After a period of time the module tries to restart that channel. If the current still exceeds 450mA the process repeats. The period of time increases with the level of the fault current.
Connections	BLZ/SL rated 300V, 15A, 0.5 - 2.5mm ² (26-12 AWG)
End-of-Line termination	Each channel includes a 100Ω resistor and a 1μF capacitor across the network lines. This circuit can be switched out of the network via DIP switches

Ordering Data

Foundation Fieldbus Power Supply Filter	791947 0000
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Accessories

Chassis Mounting Kit	792056 0000
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