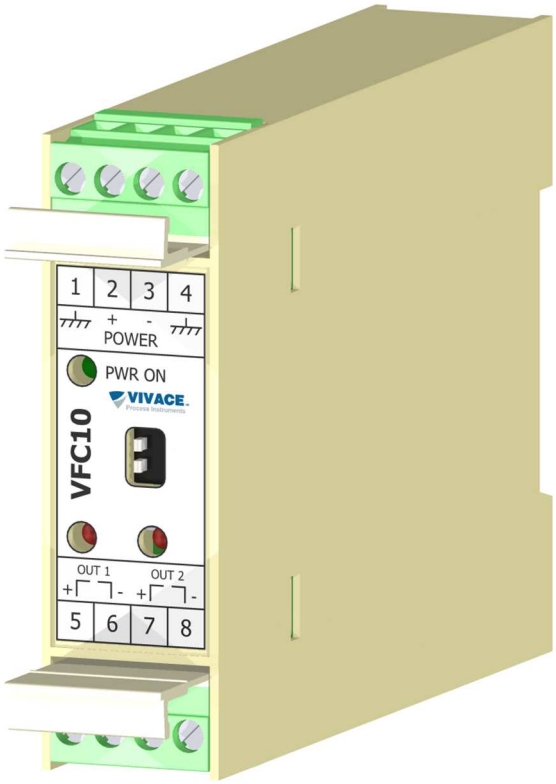
VIVACE™
Process Instruments
Exceeding Automation Limits

VFC10

FIELDBUS POWER SUPPLY CONDITIONER



- ✓ **2 Output Channels**
- ✓ **Profibus PA and Foundation fieldbus™**
- ✓ **500 mA Current per Channel**
- ✓ **Short Circuit Protection and Indication**
- ✓ **Built-in Terminator per Channel**
- ✓ **Active Impedance Control Circuit**
- ✓ **2 Indication LEDs:**
  Operation
  Fault (overcurrent)
- ✓ **According to IEC 61158-2**
- ✓ **Input Voltage 24 to 32 Vdc**
- ✓ **Operating Temperature 0 to 70 °C**

DESCRIPTION

VCF10 is a power conditioner with active impedance control circuit for Profibus PA and Foundation fieldbus™ protocols according to IEC 61158-2.

It provides the perfect powering of the field devices and prevents the conventional power supply to absorb the communication signal. The purpose of this impedance is to implement an output circuit where the impedance is greater than 3 KΩ, and when assembling in parallel with two 100 Ω ±2% terminators, it results in 50 Ω line impedance approximately.

There are two LED for power and fault indication. VFC10 can support redundancy when two power conditioners work in redundancy mode to enhance the reliability of the system. For this proposal, connect two VFC10 where its output (+ and -) are connected in parallel. When using this configuration, use an external bus terminator to allow maintenance or replacing the VCF10 in case of failure without interrupting the fieldbus communication.

EQUIPMENT CONNECTION

TECHNICAL AND PHYSICAL SPECIFICATIONS

Input Voltage	24 to 32 Vdc ±10%
Compatible Protocols	Profibus PA and Foundation fieldbus™
Output Current	500 mA
Overcurrent Proteção	> 500 mA
Operating Temperature	0 to 70°C
Mounting	Trilho DIN
Protection Degree	IP20
Humidity	0 to 85% RH
Housing Material	Injected ABS Plastic
Dimensions / Approximated Weight	76 x 23 x 105 mm / 105 g

ORDERING CODE

VFC10 *Fieldbus Power Supply Conditioner*

Certification Type		
	0	NO CERTIFICATION
	1	INTRINSICALLY SAFE

Certification Body		
	0	NO CERTIFICATION
	1	CEPEL
	2	FM
	3	EXAM

Ordering Code Example:

VFC10 -	0	0