Automation & Control Solutions

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Type PFB366

PROFIBUS® SERIAL GATEWAY

The PFB366 is a compact RS232 to Profibus serial gateway. The unit is housed in a 2½ x 3¼ plastic housing with mounting tabs. A standard DB9-Female connector provides the Profibus interface and a DB9-Male connector provides the RS232 interface. The Profibus channel is fully isolated from the supplied power. The power is conditioned by a loss-of-ground protection circuit.

The PFB366 may be used to interface peripheral devices to a Profibus system. The RS232 serial stream is internally buffered, allowing a Master node to send and receive data using standard Profibus messaging.

PFB366 provides a fully buffered serial interface between Profibus and peripheral devices. Internal FIFO's, buffer up to 255 bytes of receive and 255 bytes of transmit data, easing the interface to slower RS232 based devices. Hardware or software flow control is supported.

Features & Benefits

- Fully isolated Profibus channel
- Powered from 11-28 VDC power
- Rotary Hex ID switches
- 2 BI-color LED's for module status
- 2 BI-color LED's for serial channel status
- Selectable serial baud rate (300-19200 baud)

Specifications and Ordering Information

Profibus Interface	
Power Requirements	11-28 VDC @ 50mA
Loss of Ground	Yes
Reverse Polarity	-30 VDC
Signal Levels	RS485
RS232 Interface	
Isolation	500 Volts
ESD Protection	±10kV
Overload Protection	±30 Volt
Short Circuit	Indefinite
Output Levels	±7.9 Volts (typical)
Data Size	8/7 bits (software configuration)
Parity	Even/Odd/None (software configuration)
Stop Bits	½ (software configuration)
Data Rate	300, 1220, 2400, 4800, 9600, 19.2k (software selected)
Flow Control	None, RTS/CTS, X-ON / X-OFF (software configuration)
Environmental	
Temperature	0-70°C
Size	3.25 x 2.37 x 1.08
Mounting	1/2 inch tab, 3/16 diameter mounting hole
Encapsulation	RTV Silicon Compound

Ordering Code Example: PFB366

Type PFB366	Code	Configuration
Type PFB366 Profibus Serial Gateway	PFB366	PFB366

Profibus Connector
(DB-9 pin Female)

Pin	Function
1	
2	
3	B-line
4	RTS
5	GND (Iso.)
6	+5 (Iso.)
7	
8	A-line
9	

RS232 Connector
(DB-9 pin Male)

Pin	Function
1	N.C.
2	Receive Data
3	Transmit
4	DTR/DTS Loopback to Pin 6
5	Ground
6	DTR/DTS Loopback to Pin 4
7	Request to send
8	Clear to send
9	Power (+11 - 28VDC)

PinOuts

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