

CLR-PB-xx

Profibus DP to Fiber Optical Converters for Industrial Serial Networks



Overview

CLR-PB-xxx series Profibus fiber optic converters are designed for industrial grade applications. They support Profibus DP protocol, reach to 6Mbps baud rate (12Mbps optional) and can work as single/dual optical daisy network.

CLR-PB-xxx series converters' strong aluminum casing provides IP30 level protection. Installation method is 35mm DIN rail mounting. They have wide voltage input range as (9V~30VDC). They have output alarm relay, dual redundant power input and isolation protection function.

CLR-PB-xxx series converters support one fiber interface and one data bus interface, two way cascade fiber interface and one data bus interface, according to various model numbers which are listed in Ordering Info below.

Features

- Supports Profibus DP protocol
- 6Mbps baud rate
- Installation type is DIN-Rail
- Industrial grade design
- Output alarm relay, dual redundant power input and isolation protection function
- IP30 protection

Specifications

Bus data interface

Signal type	Profibus-DP
Baud rate	6Mbps(12Mbps optional)
Connector type	DB9 Female
Isolation voltage	Instantaneous voltage 5000V, constant voltage 1000V
Resistor	without terminal resistor, connect external when necessary

Optical Interface

Wavelength	multi-mode 850nm, 1310 nm; single mode 1310 nm, 1550nm
Fiber type	multi-mode 50/125um, 62.5/125um, 100/140um; single mode 8.3/125 um, 9/125um, 10/125um
Transmission distance	multi-mode 2km, single mode 20km.
Fiber interface type	ST/SC/FC (optional); ST (standard configuration).

Power and protection

Power	DC (9~30V) dual redundant power input, 24VDC typical, power consumption less than 1.5W
Protection	DC1000V voltage isolation and reverse connect protection
Relay	Fiber link fault alarm, Contact rating: DC48V/1A Max.
Power connector	Industrial Pluggable Screw Terminal

Mechanical

Dimension	136mm x 54mm x 106mm (H x W x D)
Housing	IP30 protection, Metal case
Installation	35mm DIN-Rail, Wall Mounting
Weight	800g

Environmental

Operating Temperature	-10°C ~ 70°C (-40°C ~ 85°C optional)
Storage Temperature	-40°C ~ 85°C
Relative Humidity	≤90% (non-condensing)

Ordering Info

CLR-PB-11M	Profibus DP to Fiber Optic Converter ST MM 12Mbps
CLR-PB-12M	Profibus DP to 2 Port Fiber Optic Converter ST MM 12Mbps
CLR-PB-11S	Profibus DP to Fiber Optic Converter ST SM 12Mbps
CLR-PB-12S	Profibus DP to 2 Port Fiber Optic Converter ST SM 12Mbps