

RIF 1769 – PROFIBUS Interface for CompactLogix™



Proven PROFIBUS Technology for CompactLogix

- PROFIBUS Certified Interface for CompactLogix from Rockwell Automation®
- Master or Slave Modules
- Simple configuration with SYCON.net®
- RSLogix™ Sample Files
- PROFIBUS DPV0 and DPV1 Support



PROFIBUS Module

The RIF 1769 module expands the functionality of Rockwell Automation's CompactLogix family of processors to include PROFIBUS. These modules support both I/O control and messaging, thus integrating DPV0 and DPV1 functionality into CompactLogix.

This card is based on the same technology that is used in our PC Cards and embedded modules. With these RIF interfaces you obtain proven technology.

Hilscher is an active participant on the Rockwell Automation Encompass Program and has developed the RIF 1769 PROFIBUS modules with Licenses and Technology from Rockwell Automation.



RIF 1769 – Technical Information

Information

RIF Interfaces are available as the following models:

| | |
|--------------|--------------------|
| RIF 1769-DPM | PROFIBUS-DP Master |
| RIF 1769-DPS | PROFIBUS-DP Slave |

| | 1769-L20 | 1769-L30 | 1769-L31 | 1769-L32E | 1769-L35E |
|--------------------|----------|----------|----------|-----------|-----------|
| Processor/Features | | | | | |
| I/O | ✓ | ✓ | ✓ | ✓ | ✓ |
| CIP Messaging | - | - | ✓ | ✓ | ✓ |

Each module is equipped with LEDs to display communication and device status.

The master and slave interface possesses an diagnostic interface, the slave has rotary switches for setting of the bus address.

The RIF interface appears to the Logix Controlled as a standard I/O module and can be configured with RSLogix5000 by Rockwell Automation. Complete program examples for simple and quick start-up are available.

Configuration

The Configuration for the RIF 1769-DPM is done with our next generation configuration tool SYCON.net. The configuration is transferred via the serial diagnostic interface and stored in the FLASH memory of the RIF cards.

The GSD file supplied is sufficient to integrate the RIF 1769-DPS as PROFIBUS-DP Slave into the configuration of any PROFIBUS Master. The PROFIBUS address is set by rotary switches. The configuration can be either transferred from the Master to the RIF 1769-DPS or can be defined in from the Logix application.

Product Overview

| RIF | Fieldbus |
|--------------|--------------------|
| RIF 1769-DPM | PROFIBUS-DP Master |
| RIF 1769-DPS | PROFIBUS-DP Slave |

Technical Data

| | |
|--|------------------------------|
| RIF 1769-DPM PROFIBUS-DP Master/Scanner | |
| max. 125 Slaves | |
| Input data: | 408 Byte* |
| Output data: | 480 Byte* |
| Acyclic data | DPV1 |
| RIF 1769-DPS PROFIBUS-DP Slave/Adapter | |
| Input data: | 244 Byte* |
| Output data: | 244 Byte* |
| Acyclic data | DPV1 |
| Processor | |
| EC1-160P, 16 Bit | |
| Memory | |
| 512 KB FLASH 256 KB RAM | |
| ASIC | |
| Master | ASPC2 integrated in EC1-160P |
| Slave | ASPC2 integrated in EC1-160P |
| PROFIBUS Interface | |
| RS485, max. 12 MBit/s, isolated, EN 50170 | |
| Diagnostic Interface | |
| PS/2 Mini-DIN connector, 9600 Baud, non-isolated | |
| Operating voltage | |
| +5 V / 260 mA | |
| Operating temperature | |
| 0...+60°C | |
| Dimension (L x W x H) | |
| 40 x 131 x 86 mm | |
| Weight | |
| ca. 140 g | |
| CE Sign | |
| Emission | EN 55011 CL.A |
| Immunity | EN 61131-2 |

* Depends on the controller type

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