

Safety Relays

Modular Monitoring Safety Relays

Minotaur MSR240P



Description

The MSR240P is a communications module for the modular Minotaur MSR200 family of monitoring safety relays. It can be connected to either the MSR210P or MSR211P base unit to provide diagnostic and status information to remote devices like the MSR245P display.

The MSR240P is connected in place of the terminator plug to the free bus connector of the Basic Module or the last connected Expansion Module, depending on the system configuration. Data transfer and power supply are routed through the same bus cable and connectors.

A green LED in the front of the MSR240P indicates the presence of supply voltage. A blinking yellow LED signals data exchange activity through the RS232/RS485 interface.

The transmission rate for the RS485 can be set with the help of two DIP switch segments at 2400, 4800, 9600, or 19200 baud.

The station address can be set by 5 additional DIP switch segments. Up to 32 stations can be connected onto a single RS485 network.

The connected supervisory monitoring or data acquisition system can process and store the data, display it, and record the reason causing a shutdown, along with the time and date of each such occurrence. This makes fault diagnosis much easier.

Features

- Data Transmission
- RS232 or RS485
- Galvanically Isolated interfaces
- 17.5mm DIN housing
- 2 Diagnostic LEDs
- Removable terminals

Specifications

Standards	IEC/EN60204-1, ISOTR12100
Approvals	CE marked for all applicable directives
Power Supply	24V DC from the base unit
Power Consumption	2W
Protocols	RS232 or RS485
Transmission Rates	2400, 4800, 9600 or 19200
Pollution Degree	2
Operating Temperature	-5°C to +55°C (+23°F to 131°F)
Humidity	90%RH
Enclosure Protection	IP40 (NEMA 1)
Terminal Protection	IP20
Conductor Size	0.2–4mm ² (24–12 AWG)
Torque Settings—terminal screws	0.4–0.5 Nm (3.54–4.43lb•in)
Case Material	Polyamide PA 6.6
Mounting	35mm DIN rail
Weight	90g (0.20lbs)
Vibration	10-55 Hz, 0.35mm
Shock	10g, 16ms, 100 shocks

Product Selection

Interface Type	Catalogue Number
RS232	440R-H23181
RS485	440R-H23182
RS232 + RS485	440R-H23183

Dimensions—mm (inches) Block Diagram



Typical Wiring Diagrams

