

# 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 five 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
- Supported baud rates: 2400, 4800, 9600, or 19200
- Galvanically isolated interfaces
- 17.5 mm DIN Rail housing
- Two diagnostic LEDs
- Removable terminals

## Specifications

Safety Ratings	
Standards	IEC/EN 60204-1, ISOTR 12100
Certifications	CE Marked for all applicable directives
Power Supply	
Input Power Entry	24V DC from the base unit
Power Consumption	2 W
Environmental and Physical Characteristics	
Enclosure Type Rating/ Terminal Protection	IP40 (NEMA 1)/ IP20
Operating Temperature [C (F)]	-5...+55 ° (23...131 °)
Vibration	10...55 Hz, 0.35 mm
Shock	10 g, 16 ms, 100 shocks
Mounting	35 mm DIN Rail
Weight [g (lb)]	90 (0.20)
Conductor Size, Max.	0.2...4 mm <sup>2</sup> (24...12 AWG)

## Product Selection

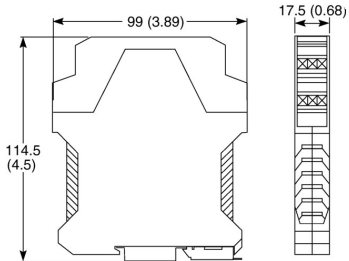
Communication Interface	Cat. No.
RS232	440R-H23181
RS232 + RS485	440R-H23183

## Accessories

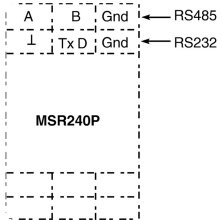
Description	Cat. No.
Bag of 4, 3-Pin Screw Terminal Blocks	440R-A23210
Bag of 4, 3-Pin Spring Clamp Terminal Blocks	440R-A23229

## Approximate Dimensions

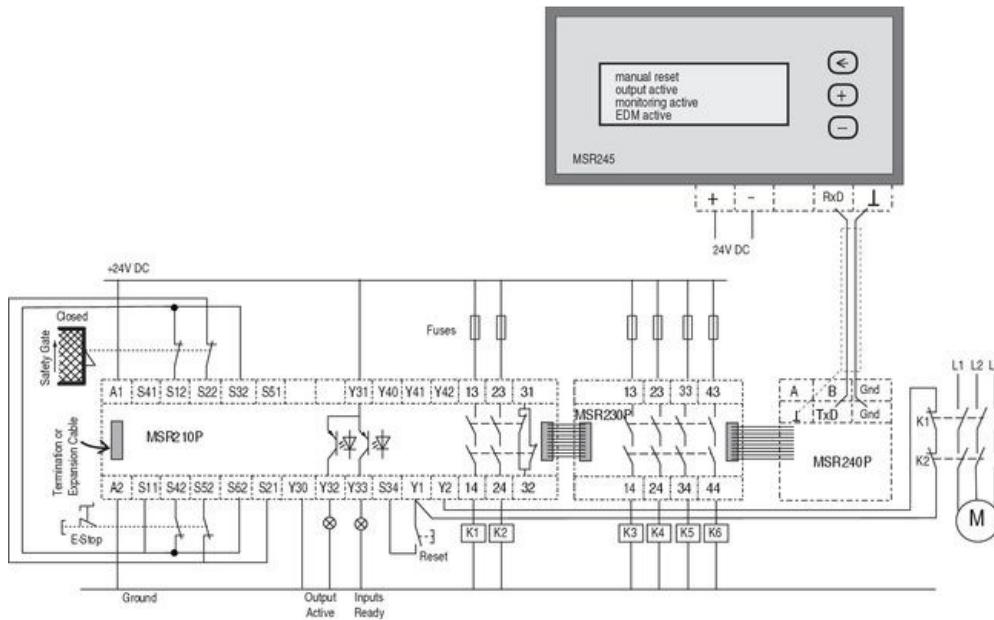
Dimensions are shown in mm (in.). Dimensions are not intended to be used for installation purposes.



## Block Diagram



## Typical Wiring Diagrams



Safety Gate, E-Stop, Manual Reset, Monitored Output