

Safety Manager Hardware Reference

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RUSLS-3224

Remote Universal Safe Logic Solver (32 channels, 24 Vdc)

Description

The RUSLS-3224 module has 32 universal safe IO channels with configurable channel function; configuration is done in Safety Builder.

The user can assign execution of application logics to the RUSLS-3224 module for one or more related FLDs; this is called logic solving. Configuration of logic solving is done in Safety Builder.

The RUSLS-3224 module can be used in applications up to SIL 3, in compliance with IEC 61508/61511.

It requires two RUSLS-3224 modules to achieve a redundant configuration.

All channels are powered out of the 24Vdc supply.

Each channel can be configured as:

- Digital input (with or without loop monitoring)
- Digital output (with loop monitoring)
- Analog input (0-20mA or 4-20mA active)
- Analog output (0-20mA or 4-20mA active)

The RUSLS-3224 module supports two (100Mbaud) ethernet links to communicate with a SM Controller.

The RUSLS-3224 module has a housing that is in line with the patented Series C design of Honeywell. It needs to be placed on an IO Termination Assembly (IOTA).

Figure 263 on page 440 shows physical appearance of the RUSLS-3224 module.

Technical data

The RUSLS-3224 module has the following specifications:

General	Type number:	FC-RUSLS-3224
	Operating temperature:	
	• outside module temperature:	–40°C ... +70°C (–40°F ... +158°F)
	• inside module temperature:	–40°C ... +90°C (–40°F ... +194°F)
	Storage temperature:	–40°C ... +85°C (–40°F ... +185°F)
	Relative humidity:	10 ... 95% (non condensing)
	Pollution:	Pollution degree 2 or better
	Approvals:	CE; UL, TUV pending
Power	Supply voltage:	24 Vdc -15% ... +30%
	Supply current:	max 300mA (without field load)
IO	Number of channels:	32
	Channel type:	Universal safe (software configurable)
	• Digital in	max. 32 (with or without line-monitoring)
	• ESD in	max. 1 (with line-monitoring)
	• Analog in	max. 32 (with or without line-monitoring)
	• Digital out	max. 32 (with or without line-monitoring) max. combined load: 9 Amp
	• Analog out	max. 16 (with or without open loop detection)
Physical Data	Dimensions (H x W x D):	145 x 165.1 x 72.4 mm 5.7 x 6.5 x 2.85 in
	Weight:	0.66 kg 1.45 lbs