

## Safety Manager Hardware Reference

EP-SM.MAN.6284

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**Release 151**

## Bill of materials

Table 3 on page 59 gives an overview of those parts of the RUSFDU-01 cabinet that can be ordered separately for spare parts, if required.

**Table 3** RUSFDU-01 - spare parts list

Quantity	Order number	Description
2	FC-RUSIO-3224	SM universal IO module, 32 channels, 24 Vdc
1	FC-IOTA-R24	SM universal IO redundant IO termination assembly
1	FC-MCAR-01	SM universal IO 18 inch carrier
2	FC-PSU-UNI2412	SM universal IO PSU 115/230Vac, 24 Vdc, 12 A, UL508
1	FC-PSUTA-0001	SM universal IO PSU shelf
1	10310/1/ICC	Earth leakage detector (rail mounted) CC
2	4600129	Ethernet switch, type EDS-305-S-SC-HPS, make MOXA
1	FC-CCI-HSE-08	SM universal IO ethernet cable set L-0.8m
1	4602956	ESD wristcable
1	4602957	ESD wristlet

## Technical data

The RUSFDU-01 unit has the following specifications:

<b>General</b>	Type number:	FC-RUSFDU-01
	Operating temperature:	-5 .. +60 degC (+23 .. +140 degF)
	Storage temperature:	-25 .. +80 degC (-13 .. +176 degF)
	Relative humidity:	5..95% (non condensing)
	Approvals:	CE, UL, TUV
<b>Power IN</b>	Supply voltage:	102..132 Vac or 196 .. 253 Vac
	Supply load:	47 .. 63 Hz
	Supply current:	2 x 0.6A at 120 Vac, 60 Hz (no load) 2 x 1A at 230 Vac, 50 Hz (no load) approx. 35 W (no load)
	PSU efficiency:	> 85%
	Connector:	5 pole header (3 pins used)
	• make and type:	Weidmuller: BLZ 5.08/5F SN SW
	Connector names:	X1, X2

## Bill of materials

Table 4 on page 73 gives an overview of those parts of the RUSFDU-02 cabinet that can be ordered separately for spare parts, if required.

**Table 4** RUSFDU-02 - spare parts list

Quantity	Order number	Description
2	FC-RUSIO-3224	SM universal IO module, 32 channels, 24 Vdc
1	FC-IOTA-R24	SM universal IO redundant IO termination assembly
1	FC-MCAR-01	SM universal IO 18 inch carrier
2	FC-PSU-UNI2412	SM universal IO PSU 115/230Vac, 24 Vdc, 12 A, UL508
1	FC-PSUTA-0001	SM universal IO PSU shelf
2	4600135	Ethernet switch, type EDS-305-S-SC-T-HPS-C, make MOXA
1	FC-CCI-HSE-08	SM universal IO ethernet cable set L-0.8m
1	4602956	ESD wristcable
1	4602957	ESD wristlet

## Technical data

The RUSFDU-02 unit has the following specifications:

<b>General</b>	Type number:	FC-RUSFDU-02
	Operating temperature:	-40°C ... +70°C (-40°F ... +158°F)
	Storage temperature:	-40°C ... +85°C (-40°F ... +185°F)
	Relative humidity:	5..95% (non condensing)
	Approvals:	CE, UL, TUV
<b>Power IN</b>	Supply voltage:	102..132 Vac or 196 .. 253 Vac
	Supply load:	47 .. 63 Hz
	Supply current:	2 x 0.6A at 120 Vac, 60 Hz (no load) 2 x 1A at 230 Vac, 50 Hz (no load) approx. 35 W (no load)
	PSU efficiency:	> 85%
	Connector:	5 pole header (3 pins used)
	• make and type:	Weidmuller: BLZ 5.08/5F SN SW
	Connector names:	X1, X2

## Technical data

The RUSIO-3224 module has the following specifications:

<b>General</b>	Type number:	FC-RUSIO-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
<b>Power</b>	Supply voltage:	24 Vdc -15% ... +30%
	Supply current:	max 300mA (without field load)
<b>IO</b>	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)
<b>Physical Data</b>	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