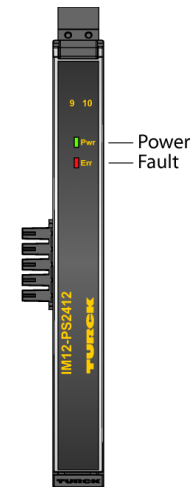
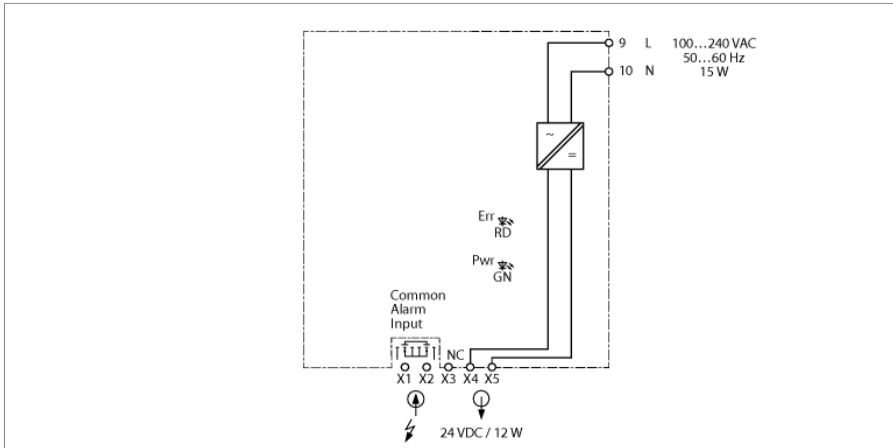


System Switching Power Supply Module IM12-PS2412-U-U-PR/W3/CC

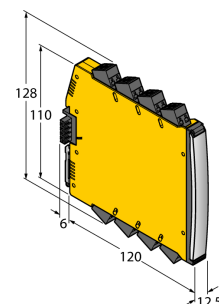


The power supply module supplies power to up to three modules of the IM... or IMX... product series via the power bridge connectors. The modules IM... and IMX... must have the power bridge function (IM...PR... or IMX...PR...). Two IM12-PS2412... can be connected together to supply power redundantly to the devices. A voltage of 100...240 VAC with 50...60 Hz at 15 W can be connected to the power supply module.

The device is equipped with removable spring-type terminals.

- System-wide power supply for IMX devices with power bridge
- Galvanic isolation
- SELV
- Easy connection to IM(X) power bridge devices via T bus male connector
- Up to 3 IM(X) devices can be connected
- Simple redundancy
- Short-circuit proof and no-load protected
- Group fault signal via red LED
- Removable spring-type terminals
- ATEX, IECEx
- Use in Zone 2

Type	IM12-PS2412-U-U-PR/W3/CC
ID	100047816
Nominal voltage	100...240 VAC
Operating voltage	90...265 VAC
Frequency	47...63 Hz
Power consumption	≤ 15 VA
Power dissipation, typical	≤ 3 W
Efficiency	80 %
External fuse	B16A
surge relief	≤ 30 V
Residual ripple	≤ 200 mV _{ss}
Mains buffering	20 ms
Output circuits	
Nominal output voltage	24 V
Adjustment range	24.7...23.1 V
Output power	12 W (including booster)
Minimum load	≥ 0 Ω
Pollution degree	2
Surge category	II
Short-circuit behaviour	Hiccup mode
Response characteristic	
Rise time (10...90 %)	≤ 2000 ms
Galvanic isolation	
Test voltage	3.0 kV
Important note	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.
Displays/Operating elements	
Operational readiness	Green
Error indication	red



Mechanical data		
Protection class	IP20	
Flammability class acc. to UL 94	V-0	
Ambient temperature	-25...+70 °C	
Storage temperature	-40...+80 °C	
Dimensions	120 x 12.5 x 128 mm	
Weight	120 g	
Mounting instructions	DIN rail (NS35)	
Housing material	Plastic, Polycarbonate/ABS	
Electrical connection	Removable spring-type terminals, 2-pin	
Terminal cross-section	0.2...2.5 mm² (AWG: 24...14)	
Environmental conditions	Operating height	Up to 2000 m above sea level
	Pollution degree	II
	Surge/Overvoltage category	II (EN 61010-1)
	Standards used	
	Voltage resistance and insulation	
		EN 50178
		EN 61010-1
	Shock	
		EN 61373 class B
		EN 60068-2-6
		EN 60068-2-27
	Temperature	
		EN 60068-2-1 Ad
		EN 60068-2-2 Bd
		EN 60068-2-1
	Air humidity	
		EN 60068-2-38
	EMC	
		NE21
		EN 61326-3-1
		EN 61000-4-2
		EN 61000-4-3
		EN 61000-4-4
		EN 61000-4-5
		EN 61000-4-6
		EN 61000-4-11
		EN 61000-4-29
		EN 55011
		EN 55016
		EN 50121-3-2
		EN 61000-6-2