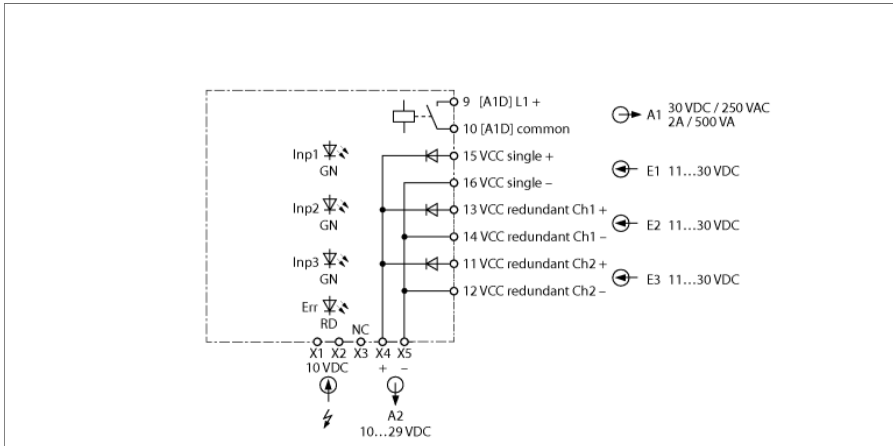


Power Supply Module - Power Bridge IMX12-PS02-UI-UIR-PR /24VDC



The IMX12-PS02-UI-UIR-PR/24VDC supply module feeds the IMX12 device series with power via the power bridge and transmits the collective fault signal of the connected devices. Simple and redundant supply of voltage is possible via 2 power supplies. The voltage inputs are reverse polarity protected. The device monitors the supply voltage at the inputs for over- and undervoltage. If the supply voltage is not within the required range (11...31, 16 V), the device will emit an error message. Errors are reported via an LED and the output relay (NO contact).

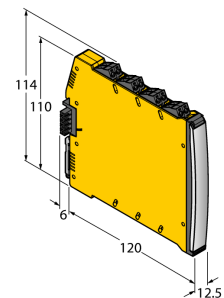
The device is connected via screw terminals.

- Collective fault signal via relay
- Single and redundant power supply via terminals
- Supply inputs are decoupled
- Reverse polarity protection
- Removable screw terminals
- Connector for power bridge incl. in delivery
- ATEX, IECEx, NEPSI, cUL, cFM, INMETRO, KOSHA, TR CU EAC
- Installation in zone 2
- SIL 2

Power Supply Module - Power Bridge

IMX12-PS02-UI-UIR-PR /24VDC

Type designation	IMX12-PS02-UI-UIR-PR /24VDC
Ident-No.	7580610
Nominal voltage	24 VDC / 7 A
Operating voltage range	11...30 VDC
Parallel mode	yes, via diodes
Important note	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.
Ex approval acc. to conformity certificate	EPS 16 ATEX 1052 X
Ignition protection category	II 3G Ex nA nC IIC T4 Gc
Indication	
Operational readiness	green
Error indication	red



Power Supply Module - Power Bridge

IMX12-PS02-UI-UIR-PR /24VDC

Protection class	IP20																																																																																
Flammability class acc. to UL 94	V-0																																																																																
Ambient temperature	-25...+70 °C																																																																																
Storage temperature	-40...+80 °C																																																																																
Relative humidity	≤ 95 %																																																																																
Dimensions	120 x 12.5 x 117 mm																																																																																
Weight	152 g																																																																																
Mounting instructions	DIN rail (NS35)																																																																																
Housing material	Polycarbonate/ABS																																																																																
Electrical connection	Removable screw clamp terminals, 2-pin																																																																																
Terminal cross-section	0.2...2.5 mm ² (24 ... 13 AWG)																																																																																
Tightening torque	0.5 Nm																																																																																
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Environmental conditions	<table> <tr> <td>Operating altitude</td><td>Up to 2000 m above sea level</td></tr> <tr> <td>Pollution degree</td><td>II</td></tr> <tr> <td>Surge category</td><td>II (EN 61010-1)</td></tr> <tr> <td>Standards used</td><td></td></tr> <tr> <td>Voltage resistance and insulation</td><td></td></tr> <tr> <td></td><td>EN 50178</td></tr> <tr> <td></td><td>EN 61010-1</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td>Shock</td><td></td></tr> <tr> <td></td><td>EN 61373 class B</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>EN 60068-2-6</td></tr> <tr> <td></td><td>EN 60068-2-27</td></tr> <tr> <td>Temperature</td><td></td></tr> <tr> <td></td><td>EN 60068-2-1 Ad</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>EN 60068-2-2 Bd</td></tr> <tr> <td></td><td>EN 60068-2-1</td></tr> <tr> <td>Humidity</td><td></td></tr> <tr> <td></td><td>EN 60068-2-38</td></tr> <tr> <td>EMC</td><td></td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>NE21</td></tr> <tr> <td></td><td>EN 61326-1</td></tr> <tr> <td></td><td>EN 61326-3-1</td></tr> <tr> <td></td><td>EN 61000-4-2</td></tr> <tr> <td></td><td>EN 61000-4-3</td></tr> <tr> <td></td><td>EN 61000-4-4</td></tr> <tr> <td></td><td>EN 61000-4-5</td></tr> <tr> <td></td><td>EN 61000-4-6</td></tr> <tr> <td></td><td>EN 61000-4-11</td></tr> <tr> <td></td><td>EN 61000-4-29</td></tr> <tr> <td></td><td>EN 55011</td></tr> <tr> <td></td><td>EN 55016</td></tr> <tr> <td></td><td>EN 50121-3-2</td></tr> <tr> <td></td><td>EN 61000-6-2</td></tr> </table>	Operating altitude	Up to 2000 m above sea level	Pollution degree	II	Surge category	II (EN 61010-1)	Standards used		Voltage resistance and insulation			EN 50178		EN 61010-1		EN 50155		GL VI-7-2	Shock			EN 61373 class B		EN 50155		GL VI-7-2		EN 60068-2-6		EN 60068-2-27	Temperature			EN 60068-2-1 Ad		EN 50155		GL VI-7-2		EN 60068-2-2 Bd		EN 60068-2-1	Humidity			EN 60068-2-38	EMC			EN 50155		GL VI-7-2		NE21		EN 61326-1		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
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Power Supply Module - Power Bridge
IMX12-PS02-UI-UIR-PR /24VDC**Accessories**

Type code	Ident-No.	Description	Dimension drawing
IMX12-SC-2X-4BK	7580940	Screw terminals for IM(X)12 modules; included in delivery: 4 pcs. of 2-pin black terminals	
IMX12-SC-2X-4BU	7580941	Screw terminals for IM(X) 12 modules; included in delivery: 4 pcs. of 2-pin blue terminals	
IMX12-CC-2X-4BK	7580942	Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. black terminals, 2-pin	
IMX12-CC-2X-4BU	7580943	Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. blue terminals, 2-pin	