One and Two Port Ruggedized USB Isolators

UHR401 & UHR402



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PRODUCT FEATURES

- 4 kV Isolation
- High Retention USB Connectors
- ESD Protection 15 kV Air
- Heavy Duty Case Panel Mount or optional DIN rail adaptor clips
- USB 2.0 Full Speed
- One and Two Port Version

The UHR401 and UHR402 are One and Two Port Ruggedized Isolators. They are designed and tested to meet heavy industrial EMC standards. High retention USB connectors hold standard USB cables tight and are perfect for high vibration applications – requiring up to 3.2 lbs-force to disconnect them. They have 4 kV Isolation between the upstream and downstream USB ports to protect expensive equipment from dangerous ground loops and to help ensure data integrity.

The Heavy Industrial EMC specifications allow these isolators to operate in unfriendly electrical environments – such as near variable frequency drives, motor control centers, welding, and other large electrical loads.

They are powered from an external 10 to 30 VDC power supply unit. The product comes with an international power supply that has US, EU, and UK blades.

The downstream port(s) provides up to 500 mA of power to connected USB devices.

ORDERING INFORMATION

MODEL NUMBER USB SPEED
UHR401 1 Port Rugged USB Isolator
UHR402 2 Port Rugged USB Isolator

Both models include a 12 VDC Wall Plug In Power Supply and 6 ft. (1.8 m) USB cable.

ACCESSORIES

PS12VLB-INT-MED - Replacement Power Supply 12Vdc, Medical Grade - US, EU, UK Blades.

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

PSPT-LB - Stripped and Tinned Power connector for use with industrial power supply. Locking Barrel Connector.

USBAMBM-6F - 6 ft. (1.8 m), Type A Male to Type B Male (Grey)

DRAD35 - DIN rail adapter clip

Learn More!

READ ON!

Ruggedized USB Connections for Tough Environments



*Carrier data charges may apply.



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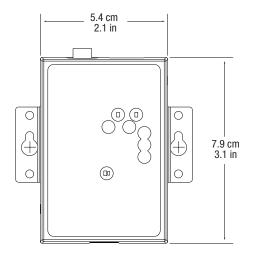


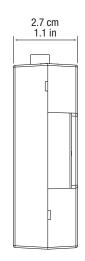
SPECIFICATIONS

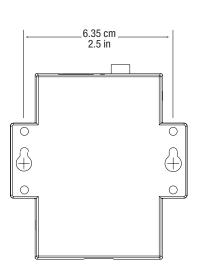
SPECIFICATIONS		
USB 1.1 & 2.0 (12 Mbps)		
(1) Type B Female – High Retention		
(1 or 2) Type A Female – High Retention		
12 Mbps Multi-transaction Translator, 1 per port		
4 kV – Upstream to Downstream		
15 kV Air, 8 kV Contact		
USB Ports require 15 N (3.2 lbs-force) withdrawal force using standard USB Cable		
High Retention USB Type B (Upstream) , Type A (Downstream), Minimum withdrawal force of 15 Newtons (~3.4 lbs-force)		
Power from USB bus		
External		
Threaded barrel jack		
10 to 30 VDC		
Input :110 – 240 VAC, 50 / 60 Hz US, EU, UK Blades Included Output: 12 VDC		
Barrel Jack, Center Positive		
UHR401 – 4 Watts (External Source) UHR402 – 7 Watts (External Source) Locking / Threaded, Center Positive		
500 mA per port		
Green LED		

MECHANICAL			
Dimensions		7.9 x 5.4 x 2.7 cm (3.1 x 2.1 x 1.1 in)	
Enclosure		IP 30, Plastic	
Weight		0.15 lbs (80 g)	
MTBF UHR401		375842 Hours	
MTBF UHR402		353807 Hours	
MTBF Calc. Method		MIL 217F Parts Count Reliability	
ENVIRONMENTAL			
Operating Temperature		0 to 50°	
Storage Temperature		-40 to 85°C	
Operating Humidity		0 to 95% Non-condensing	
APPROVALS/CERTIFICATIONS			
Emissions		B, CISPR Class B (EN55022)	
CE	EN61000-6-2:2005 (Heavy Industrial) EN61000-4-2:2008 (ESD) +/- 8kV contact, +/-15 kV air EN61000-4-3:2006 (RI) 10 V/m, 80-1000 Mhz; 3 V/m 1.3 to 2.7 GHz EN61000-4-4:2004 (EFT Burst) +/- 2kV DC ports; +/- 1 kV signal ports EN61000-4-5:2005 (Surge) +/- 2 kV com; +/- 1 kV differential EN61000-4-6:2008 (CI) 10 Vrms, 0.15 to 80 MHz EN61000-4-8:2001 (Magnetic) 10 A/m, 50 Hz & 60 Hz		
Other	IEC60068-2-27 (Shock) 50G Peak, 11 ms, 3 axes IEC60068-2-6 (Vibration) 140-500 Hz, 4G, 3 axes IEC60068-2-32 (Drop) 10 total drops from sides, corner, edges		

MECHANICAL DIAGRAM









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