



e-IsoTech™ HV-Matrix

High Voltage switching system Matrix 2x8 channels

e-IsoTech™ is a High Voltage Matrix with 2x8 channels designed to switch the high voltage signals used in electrical safety test.

e-IsoTech™ is a compact end easy solution, that allows an integration into manual and automatic stations of a production line.

MAIN FEATURES:

- High Voltage Ratings to 7Kv
- High Current Ratings to 2A
- Improves test quality, consistency and repeatability
- 8 channels in a single compact unit with 8 conductor cable at 7000V max to ensure that each one is properly isolated from all others
- You can use the **e-IsoTech™** to automatically route the HV and return signals to the proper test point
- Matrix relays can be controlled by PLC with 24Vdc digital output or other systems capable of driving coils of 780 Ohm

HARDWARE FEATURES

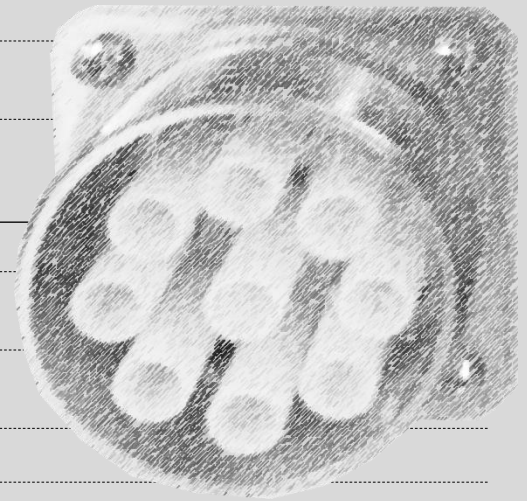
- Sealed aluminum box for full safety use
- Front Panel Connector for easy connection to the High voltage circuit
- Rear Panel Connector for easy connection to the relay drivers
- Reliable high-speed operation of the relays <5ms
- Maximum Switching voltage DC or AC peak 7Kv
- Maximum Switching current DC or AC peak 3A
- Maximum Switching power 50W



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TECHNICAL SPECIFICATIONS

Contact specification	Unit condition	Values
Switching Voltage Max.	V DC or AC peak	7000
Switching Current Max.	A DC or AC peak	3
Carry Current Max	A DC or AC peak	2
Switching Power Max.	W	50
Insulation across contacts N.O.	kV DC or AC peak	10
Lifetime operation	Dry switching 50W switching	10 ⁹ 10 ⁶
Insulation resistance	Ohm min Ohm typical	10 ¹⁰ 10 ¹³
Contacts resistance	mOhm typical mOhm max	100 250
Coil specification	Unit condition	Values
Operating Voltage	V DC	24
Switching time (closing)	ms max ms typical	5 3
Switching time (opening)	ms max ms typical	5 3
Coil Resistance	Ohm	780
Relay specification	Unit condition	Values
Insulation Contact/Coil	kV	17
Insulation Resistance Contact to all terminals	Ohm min Ohm typical	10 ¹⁰ 10 ¹³
Environmental Operating Temperature Range	°C	0 to 70



APPLICATIONS

- Mass production of Electric components, Battery management system (BMS), Electric Motor, HV Battery Junction Box (eBOX), Coils

CONFIGURATIONS AND OPTIONS

Product Code	Description
e-IsoTech HV-Matrix	High Voltage Matrix with 2x8 channels