Intermediate Fuse Panel

Telect®
CONNECTING THE FUTURE™

DESCRIPTION AND INSTALLATION

The Intermediate Fuse Panels distribute and protect higher current between power board and rack-mounted equipment. These panels are available with dual 80- or dual 100-amp input. They feature 4 KTK fuses or 4 KTK and 4 GMT fuses on each side. Sides A and B are totally isolated providing battery protection and reduced risk of total power failure.
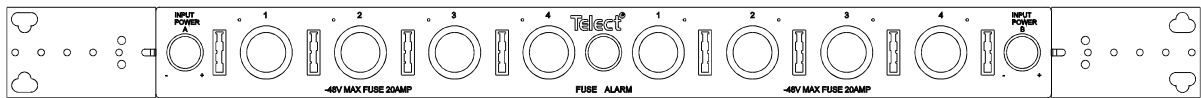
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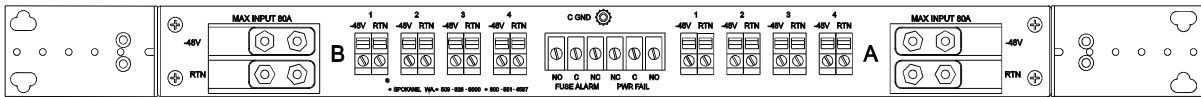| Features	009-8004-1001	009-8004-0100
Dual Feed		
Amps per Input Feed	80	100
-48 Volts		
Total Number of Fuses	8	16
GMT Fuses	N/A	Dual 4
KTK Fuses	Dual 4	Dual 4
Fuse Rating	KTK: 20 amp max.	GMT: 10 amp max. KTK: 30 amp max.
Rack Mounting	19" or 23"	19" or 23"
Mounting Offset	Flush or 4"	Flush or 4"
Rack Space Height	1.75" (fits 2")	1.75" (fits 2")
Color	White	White
Fuse Alarm and Power Fail Alarm Ouputs		
Fuse Fail Alarm LED		
Power On LED		
Fuse Monitoring	KTK fuse monitoring using GMT fuses	Electronic KTK fuse monitoring
KTK Alarm Reset	N/A	
Power input connector accepts a 2-hole lug compression connector (4 each included).	#4 AWG	#2 AWG
Fuse Distribution Terminals	Screw-tight connectors, bare wire #24-10 AWG	GMT: #6-32 screws for up to #12 AWG wire KTK: #8-32 screws for up to #10 AWG wire

Technical

Fuse Fail and Power Fail

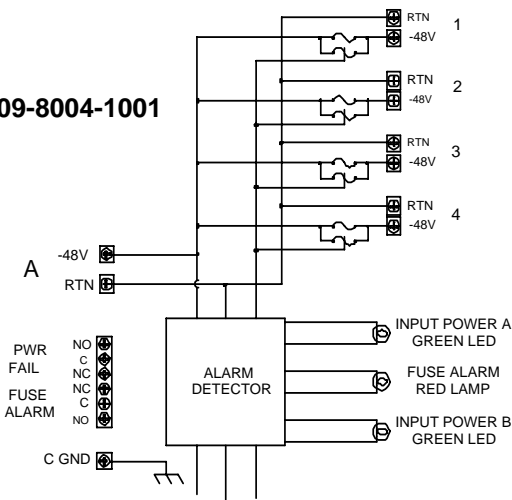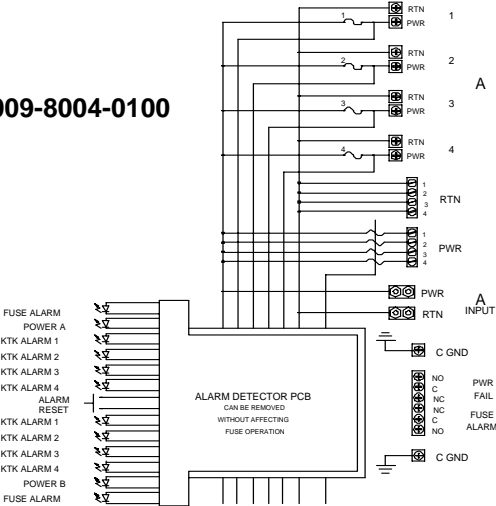|	
Power Fail Relay	Power fail relay is energized during normal operation. Upon power failure, the relay will then de-energize, closing the C - NO contacts.
Fuse Fail Relay	Fuse fail relay in nonenergized during normal operation. Upon a fuse failure, the relay will energize closing the C -NO contacts.
Electronic KTK Fuse Monitoring (009-8004-0100)	KTK fuse fail circuit monitors voltage out for each KTK position. Upon voltage loss, it will light a fuse fail light associated with that position and energize the fuse fail relay, closing the C - NO contacts.
KTK Fuse Fail Reset (009-8004-0100)	Resets the fuse fail alarm associated with the power loss of a KTK position until the next fail occurs. It does not reset the GMT fuse fail.
KTK Fuse Monitoring using GMT Fuse (009-8004-1001)	KTK fuses are paralleled with a 1/2 amp GMT fuse. Upon a KTK fuse failure, the GMT fuse will also fail triggering the failure alarm, closing the C - NO contacts.

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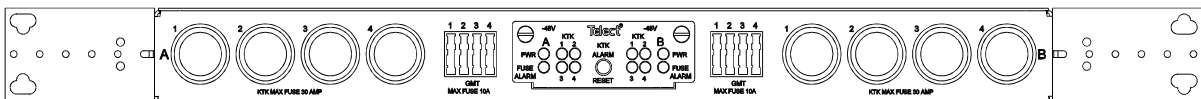
Front View

Rear View (rotated)
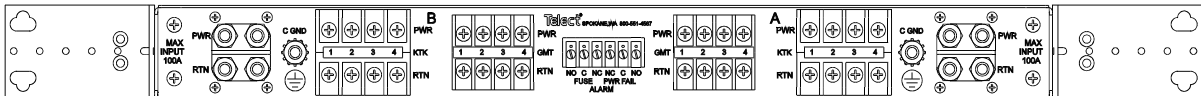
009-8004-1001

009-8004-0100

009-8004-0100

Front View

Rear View (rotated)

Installation

Telect's Intermediate Power Distribution Fuse Panels provide fused protection for a variety of telecommunications equipment. Panels are designed for mounting into 19" or 23" relay racks. All fuse panels come with a "Phoney Fuse" inserted into each GMT and KTK fuse position, an adhesive-backed fuse designation label, and with the appropriate mounting screws. Please read these instructions before beginning installation.

NOTE: When unpacking, inspect the equipment for shipping damage, defects, or missing parts. Immediately notify Telect of any discrepancy at 1-800-551-4567 or 1-509-926-6000.

1. Fuse panel brackets provide mounting capability for both EIA and WECO relay racks. Additionally, panels have both a flush and a 4" extended mounting capability. Prior to mounting the fuse panel, adjust the mounting bracket positions to the desired flush or extended mounting position. Panels come from the factory ready for mounting into a 23" rack, reverse the brackets if mounting into a 19" rack.

2. In relay rack mounting location 1, mount the fuse panel using the mounting screws provided.

009-8004-1001	009-8004-0100
3. Use #4 AWG copper wires to feed into the Power and RTN connectors. The two-hole compression lugs are provided. If additional lugs are needed for these panels, use UL-recognized compression lugs such as Thomas & Bettes P/N 54206 or equivalent. Additionally, use an UL-approved crimping tool to attach the lugs to the wires. Secure the lugs to the input terminals using 17 inch lbs. of torque.	Use #2 AWG copper wires to feed into the Power and RTN connectors. The two-hole compression lugs are provided. If additional lugs are needed for these panels, use UL-recognized compression lugs such as Thomas & Bettes P/N 54207 or equivalent. Additionally, use an UL-approved crimping tool to attach the lugs to the wires. Secure the lugs to the input terminals using 20 inch lbs. of torque.
4. Use #24-10 AWG wire to connect the fuse distribution and the equipment. Terminal screw torque is 7 inch lbs maximum.	GMT output terminal blocks use #6-32 screws for up to #12 AWG wire. KTK output terminal blocks use #8-32 screws for up to #10 AWG wire. Terminal screw torque is 9 inch lbs maximum.
WARNING: While each fuse position may accommodate fuses with ratings up to 20 amps, DO NOT EXCEED the maximum fuse <u>panel</u> capacity rating (80 amps).	**WARNING:** While each GMT fuse position may accommodate fuses with ratings up to 10 amps, and KTK fuse position accommodate fuses with ratings up to 30 amps, DO NOT EXCEED the maximum fuse <u>panel</u> capacity rating (100 amps).

5. Alarm relay contacts are rated at 2 amps maximum. Connect any remote external audible alarm or visual alarm indicator wires to the ALARM OUTPUT terminal by following steps 5a and 5b for the terminals labeled PWR FAIL first and then repeating the procedure for the terminals labeled FUSE ALARM.

   a. Connect the "C" (common) terminal on the fuse panel to the common terminal of the alarm receiver, or to ground.

   b. If using an external alarm indicator that activates when a normally-present power signal is lost, connect the non-ground alarm indicator wire to a "NC" (normally closed) terminal. If using an external alarm indicator that activates based upon the application of a power signal or ground, connect the alarm indicator wire to a "NO" (normally open) terminal.

6. Replace the appropriate "Phoney Fuses" with properly rated and UL-recognized GMT and KTK fuses (available from Telect).

7. Record the fuse position assignments on the designation label and mount the designation label.

Maintenance

Telect's fuse panels have no recurring maintenance requirements.

GMT Fuses	Telect Product Number
1/4A, violet	100151
1/2A, red	004001
3/4A, brown	004008
1A, gray	100991
1 1/3A, white	004006
1 1/2A, white/yellow	004011
2A, orange	004002
3A, blue	004012
4A, white/brown	004013
5A, green	004014
7 1/2A, black/white	004010
10A, red/white	004015

ESTI Mounting Brackets	Telect Product Number
For 20.5" (52.07 cm) Rack	999-0041-0068

Phoney Fuses	Telect Product Number
KTK	110852
GMT	101557

Replacement Circuit Card	Telect Product Number
For 009-8004-0100	400193

KTK Fuses	Telect Product Number
10A	111982
15A	111981
20A	110517
25A	111980
30A	111983

Fuse Designation Labels	Telect Product Number
1-4 A & B for 009-8004-1001	112273
1-4 KTK/GMT for 009-8004-0100	114611

Compression Lugs	Telect Product Number
For #2 AWG Wire	114552
For #4 AWG Wire	110516
For #6 AWG Wire	101686

Power On LED	Telect Product Number
For 009-8004-1001	106522

Fuse Fail Lamp	Telect Product Number
For 009-8004-1001	097102

If you need help or have a question about this or other product applications, contact a Telect Customer Service Representative. You can reach us at:

Telect, Inc.
N. 2111 Molter Rd.
P.O. Box 665
Liberty Lake, WA 99019
509.926.6000 or 800.551.4567
Fax 509.926.8915
E-mail: getinfo@telect.com
Internet: http://www.telect.com

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