Amphenol Pcd Relay Sockets
JRS/JRE Quick Mount Relay sockets

Amphenol Pcd Quick Mount Relay Sockets

Amphenol Pcd recently introduced the JRS/JRE line Quick-Mount Relay Sockets. These relay sockets snap mount into standard aircraft panel cutouts and eliminate all socket-to-bulkhead mounting hardware, simplifying installation and dramatically reducing weight and installed cost. JRS/JRE line sockets meet the applicable performance and dimensional requirements of MIL-PRF-12883, are compatible with MIL SPEC approved relays from any manufacturer, and can be utilized in existing avionic systems with standard slotted panel cutouts.



JRS 4 Pole Relay Sockets | **JRS 3 Pole Relay Sockets** | **JRS 2 Pole Relay Sockets** | **JRS 1 Pole Relay Sockets** | **JRE 2 Pole Relay Sockets** | **JRE 4 Pole Relay Sockets**

Key Features and Benefits

Socket Construction & Installation

JRS/JRE sockets maintain the same MIL mounting configurations and construction (molded polyetherimide bodies and silicone rubber sealing grommets) as Amphenol Pcd's traditional relay sockets. A heel and toe snap-in system allows the socket to be mounted to the panel without hardware and held securely in place. The assembled socket and relay meet all shock and vibration requirements

Lower Installed Cost

Elimination of loose hardware and the time required to assemble individual hardware components to the sockets results in a reduction of over 45% in socket installation time.

No Loose Hardware

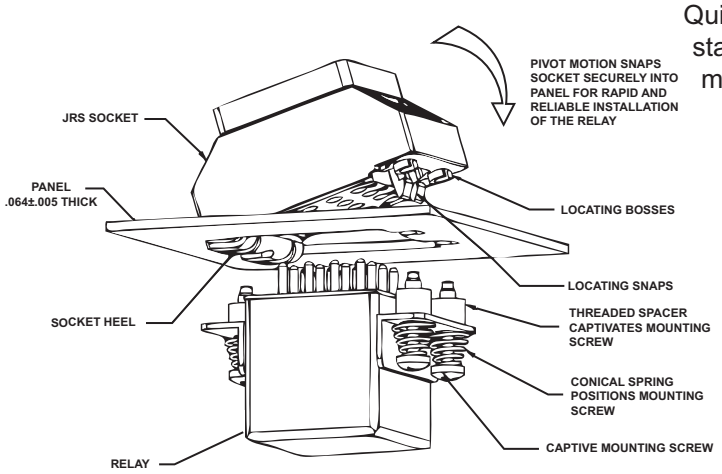
The combination of snap-in relay-to-panel mounting and pre-assembled relay hardware eliminates all loose hardware from the socket and relay mounting and installation process. The logistical and safety issues related with loose hardware are completely avoided.

Relay Installation

JRE/JRS Relay Sockets feature externally threaded mounting screws and spacer assemblies which are pre-assembled to the relay. These mounting screws are captured and aligned by a conical spring, and utilized to fasten the relay to the socket. The screws engage internally threaded bushings captured in the socket and once the relay is secured, the socket snap features are no longer under stress.

Reduced Weight

The elimination of socket mounting hardware and a streamlined polyetherimide body combine to reduce the weight of a Quick-Mount Relay Socket. When compared to Amphenol Pcd standard MIL-PRF-12883 relay sockets provided with traditional mounting hardware, the weight is reduced by 30 to 40%.



Amphenol Pcd

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Quick Mount Relay Sockets
JRS 1 Pole / 25 Amp / Size 12 & 16

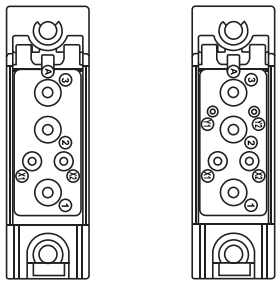


Replaces MIL-PRF-12883/55
Mates with M6106 Relays

Operating Range
Temperature:
-65ºC to 125ºC
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-213, Method 213
Test Condition C

Materials
Socket Body:
Polythermide per ASTM-D5205
Grommet:
Silicone Rubber per A-A-59588
Contact Retainers:
Stainless Steel
Internal Socket Contacts:
Copper Alloy, Hard Gold Finish
per SAE-AMS-2422

Socket Configurations



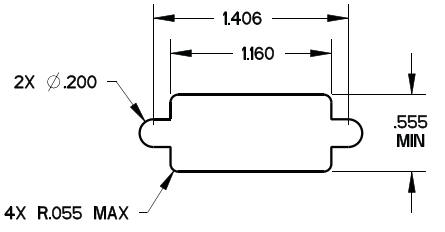
Extended Height Relay Sockets

APCD P/N	QTY	Size	Contact	Mating Relay	Configuration
JRS500100	2	16/16	/92-533	M6106/19, M6106/20	A
	3	12/12	/92-535		
JRS500200	2	16/16	/92-533	M6106/19, M6106/20	B
	3	12/12	/92-535		

Relay Socket Weight

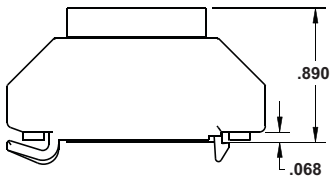
Relay Socket	Pounds	Grams
Low Profile	.042	19

Required Mounting Panel Cutout

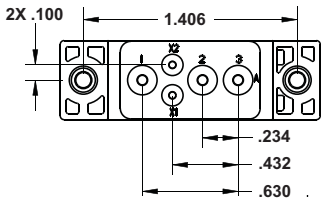


Relay Socket Dimensions

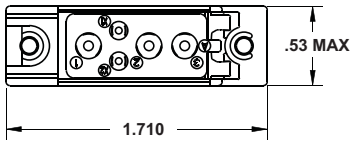
Side View



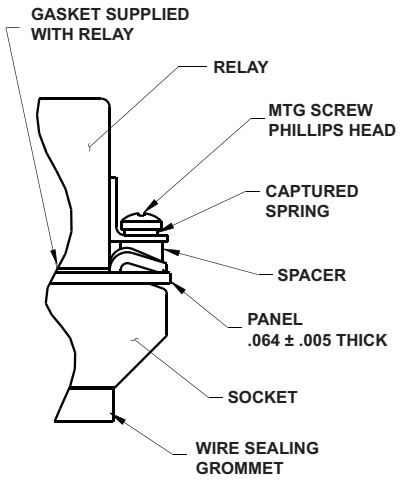
Top View



Bottom View



Mounting Hardware



Part Number Instructions

APCD P/N	Hardware	Contacts
JRS500100	NONE	NONE
JRS500101	NONE	YES
JRS500110	YES	NONE
JRS500111	YES	YES

Quick Mount Relay Sockets
JRS 2 Pole / 10 Amp / Size 16

Operating Range
Temperature:
-65ºC to 125ºC
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-213, Method 213
Test Condition C

Materials
Socket Body:
Polythermide per ASTM-D5205
Grommet:
Silicone Rubber per A-A-59588
Contact Retainers:
Stainless Steel
Internal Socket Contacts:
Copper Alloy, Hard Gold Finish
per SAE-AMS-2422

Quick Mount Relay Sockets

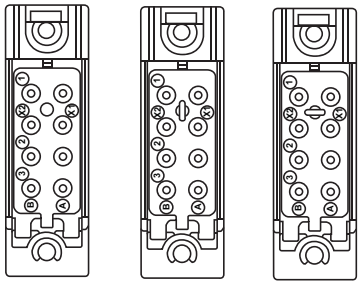


Replaces MIL-PRF-12883/41
Mates with M83536 Relays

Extended Height Relay Sockets

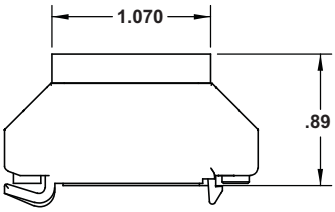
APCD P/N	QTY	Size[1]	Contact	Mating Relay	Configuration
JRS200100	8	16/16	/92-533	M83536	A
JRS200200	8	16/16	/92-533	M83536	B
JRS200300	8	16/16	/92-533	M83536	C

Socket Configurations

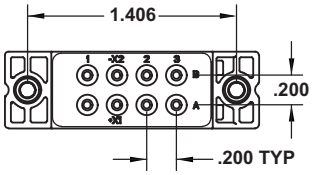


Relay Socket Dimensions

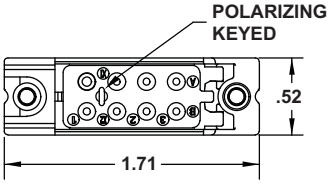
Side View



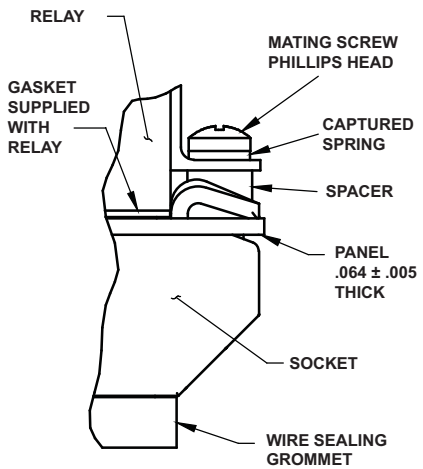
Top View



Bottom View



Mounting Hardware



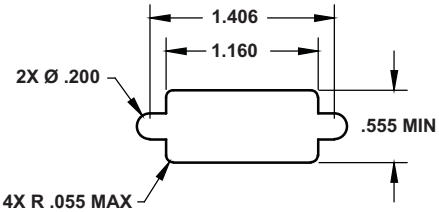
Part Number Instructions

APCD P/N	Hardware	Contacts
JRS200100	NONE	NONE
JRS200101	NONE	YES
JRS200110	YES	NONE
JRS200111	YES	YES

Relay Socket Weight

Relay Socket	Pounds	Grams
Low Profile	.042	19

Required Mounting Panel Cutout



Amphenol Pcd

www.amphenolpcd.com Milaero@amphenolpcd.com 1-978-624-3400 72 Cherry Hill Drive Beverly, MA 01915

Quick Mount Relay Sockets
JRS 3 Pole / 25 Amp / Size 12 & 16

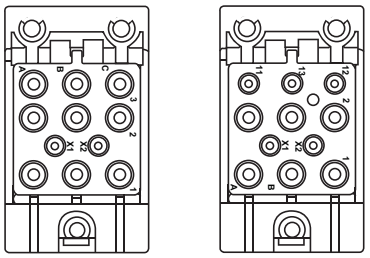


Replaces MIL-PRF-12883/48
Mates with M6106 & MS27743 Relays

Operating Range
Temperature:
-65ºC to 125ºC
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-213, Method 213
Test Condition C

Materials
Socket Body:
Polythermide per ASTM-D5205
Grommet:
Silicone Rubber per A-A-59588
Contact Retainers:
Stainless Steel
Internal Socket Contacts:
Copper Alloy, Hard Gold Finish
per SAE-AMS-2422

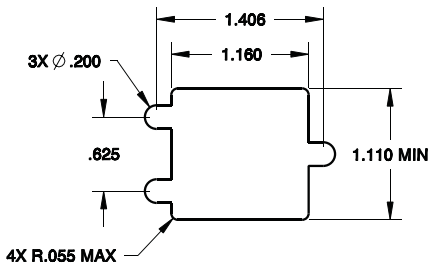
Socket Configurations



Relay Socket Weight

Relay Socket	Pounds	Grams
Low Profile	.075	34

Required Mounting Panel Cutout

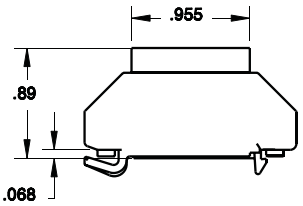


Extended Height Relay Sockets

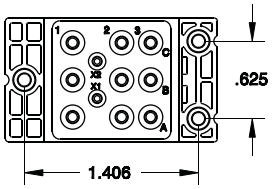
APCD P/N	QTY	Size[1]	Contact	Mating Relay	Configuration
JRS300100	2	16/16	/92-533	M6106/13, MS27743	A
	9	12/12	/92-535		
JRS310100	5	16/16	/92-533	M6106/13, MS27743	B
	6	12/12	/92-535		

Relay Socket Dimensions

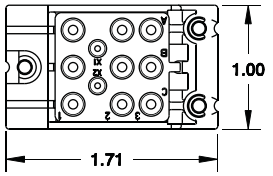
Side View



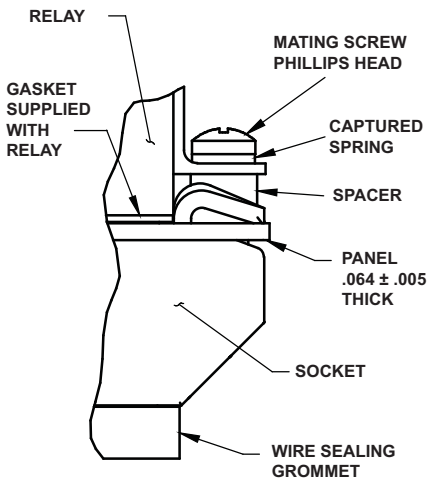
Top View



Bottom View



Mounting Hardware



Part Number Instructions

APCD P/N	Hardware	Contacts
JRS300100	NONE	NONE
JRS300101	NONE	YES
JRS300110	YES	NONE
JRS300111	YES	YES

Amphenol Pcd

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Quick Mount Relay Sockets
JRS 4 Pole / 10 Amp / Size 16

Operating Range
Temperature:
-65ºC to 125ºC
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-213, Method 213
Test Condition C

Materials
Socket Body:
Polythermide per ASTM-D5205
Grommet:
Silicone Rubber per A-A-59588
Contact Retainers:
Stainless Steel
Internal Socket Contacts:
Copper Alloy, Hard Gold Finish
per SAE-AMS-2422

Quick Mount Relay Sockets

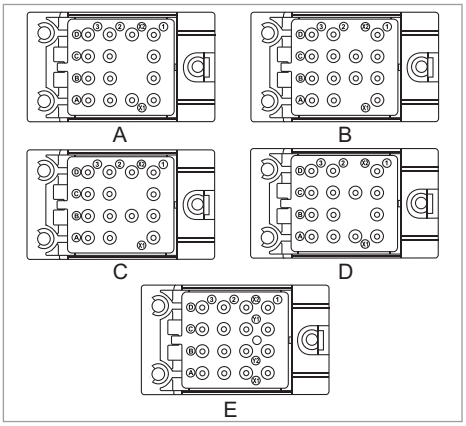


Replaces MIL-PRF-12883/40
Mates with M83536, 83726 & MS27709 Relays

Extended Height Relay Sockets

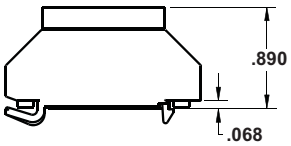
APCD P/N	QTY	Size[1]	Contact	Mating Relay	Configuration
JRS400100	14	16/16	/92-533	M83536, M83726, MS27709	A
JRS400200	14	16/16	/92-533	M83536, M83726, MS27709	B
JRS400300	14	16/16	/92-533	M83536, M83726, MS27709	C
JRS400400	14	16/16	/92-533	M83536, M83726, MS27709	D
JRS400500	16	16/16	/92-533	M83536, M83726, MS27709	E

Socket Configurations

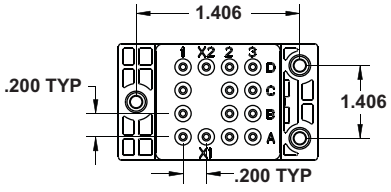


Relay Socket Dimensions

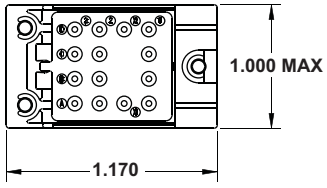
Side View



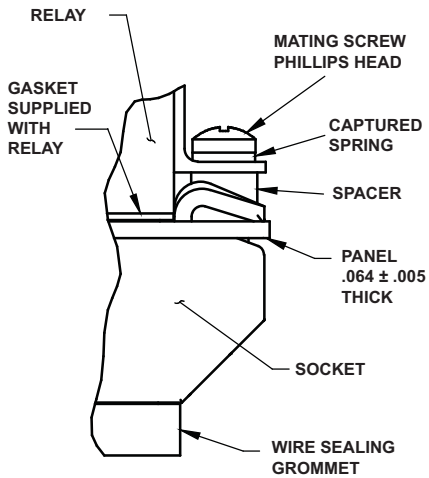
Top View



Bottom View



Mounting Hardware



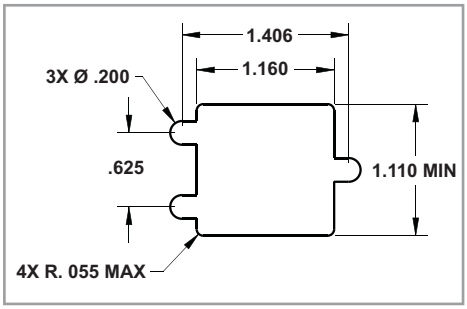
Part Number Instructions

APCD P/N	Hardware	Contacts
JRS400100	NONE	NONE
JRS400101	NONE	YES
JRS400110	YES	NONE
JRS400111	YES	YES

Relay Socket Weight

Relay Socket	Pounds	Grams
Low Profile	.068	31

Required Mounting Panel Cutout



Amphenol Pcd

Quick Mount Relay Sockets
JRE 2 Pole / 5 Amp / Size 20

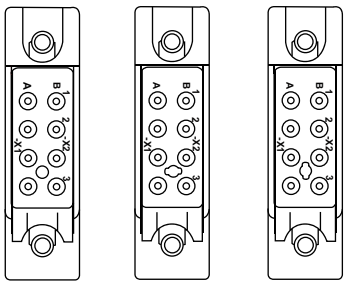


Replaces MIL-PRF-12883/41
Mates with M83536 & M6106 Relays

Operating Range
Temperature:
-65°C to 125°C
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1000 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-213, Method 213
Test Condition C

Materials
Socket Body:
Polythermide per ASTM-D5205
Grommet:
Silicone Rubber per A-A-59588
Contact Retainers:
Stainless Steel
Internal Socket Contacts:
Copper Alloy, Hard Gold Finish
per SAE-AMS-2422

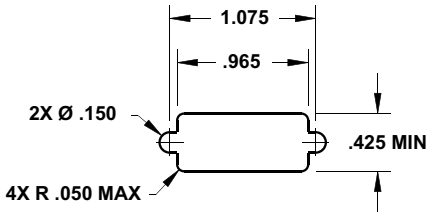
Socket Configurations



Relay Socket Weight

Relay Socket	Pounds	Grams
Low Profile	.042	19

Recommended Mounting Panel Cutout



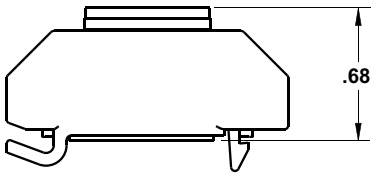
Extended Height Relay Sockets

APCD P/N	QTY	Size	Contact	Mating Relay	Configuration
JRE200100	8	20/20	/101-533	M83536, M6106	A
JRE200200	8	20/20	/101-533	M83536, M6106	B
JRE200300	8	20/20	/101-533	M83536, M6106	C

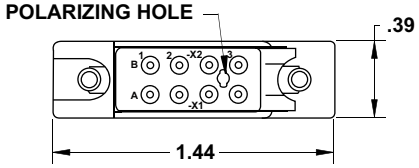
Applies to all plug-in type relays of these documents

Relay Socket Dimensions

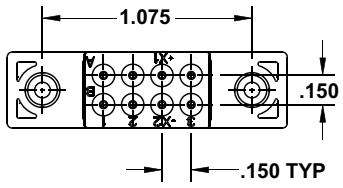
Side View



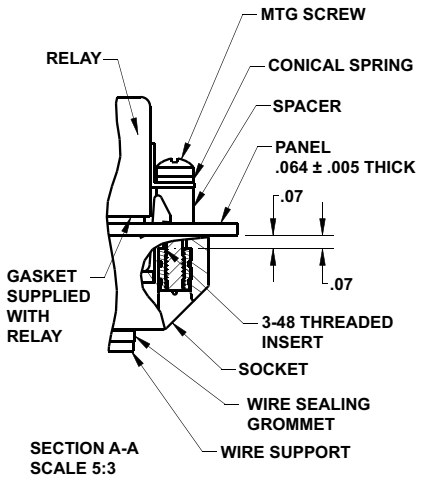
Top View



Bottom View



Mounting Hardware



Part Number Instructions

APCD P/N	Hardware	Contacts
JRE200100	NONE	NONE
JRE200101	NONE	YES
JRE200110	YES	NONE
JRE200111	YES	YES

Quick Mount Relay Sockets
JRE 4 Pole / 5 Amp / Size 20

Operating Range
Temperature:
-65°C to 125°C
Insulation Resistance:
1000 Megaohms Min.
Dielectric Withstanding Voltage:
1000 VRMS at Sea Level
500 VRMS at 80,000 ft.
Vibration:
MIL-STD-202, Method 204
Test Condition G
Shock:
MIL-STD-213, Method 213
Test Condition C

Materials
Socket Body:
Polythermide per ASTM-D5205
Grommet:
Silicone Rubber per A-A-59588
Contact Retainers:
Stainless Steel
Internal Socket Contacts:
Copper Alloy, Hard Gold Finish
per SAE-AMS-2422

Quick Mount Relay Sockets

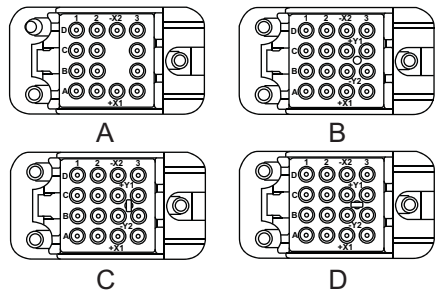


Replaces MIL-PRF-12883/44
Mates with M83536 Relays

Extended Height Relay Sockets

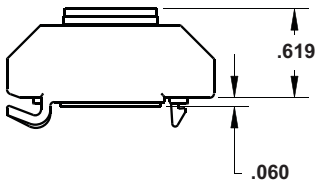
APCD P/N	QTY	Size	Contact	Mating Relay	Configuration
JRE400100	10	20/20	/101-533	M83536/5, M83536/6, M83536/7	A
JRE400200	12	20/20	/101-533	M83536/5, M83536/6, M83536/7	B
JRE400300	12	20/20	/101-533	M83536/5, M83536/6, M83536/7	C
JRE400400	12	20/20	/101-533	M83536/5, M83536/6, M83536/7	D

Socket Configurations

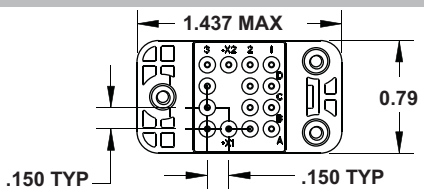


Relay Socket Dimensions

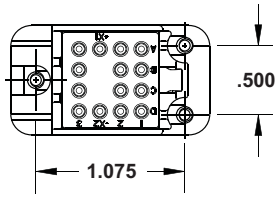
Side View



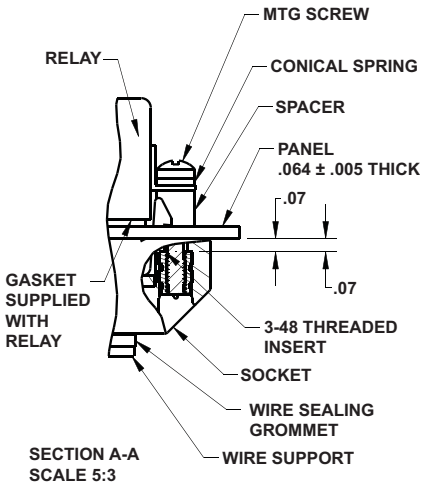
Top View



Bottom View



Mounting Hardware



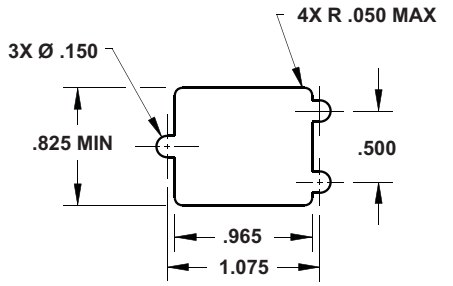
Part Number Instructions

APCD P/N	Hardware	Contacts
JRE400100	NONE	NONE
JRE400101	NONE	YES
JRE400110	YES	NONE
JRE400111	YES	YES

Relay Socket Weight

Relay Socket	Pounds	Grams
Low Profile	.068	31

Required Mounting Panel Cutout



Amphenol Pcd

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