

PKI series

Modular keypads with last minute snappable inserts



DISTINCTIVE FEATURES

- Last minute snappable keys
- Configurable Backlight and indicators with RGB LED
- Laser etched icons
- Programmable functions
- Thousand of stock icons inserts available
- Vertical or horizontal mount
- CANopen and J1939 communication protocol



ENVIRONMENTAL SPECIFICATIONS

- Operating temperature : -40°C to +70°C
- Storage temperature : -40°C to +85°C
- Thermal shock : -40°C to +85°C According to table 2 of ISO16750-4
- Mechanical shock test : test IEC 60068 2-27 3-axis X,Y,Z 50Gs 11ms
- Vibration test : IEC 60068 2-6 3-axis X,Y,Z 10-150Hz 0.15mm
- UV protection : UVB 400 hours
- Salt spray per ASTM B117
- Chemical resistance : engine cleaner, isopropyl alcohol, suntan lotion, multi-purpose cleaner, muriatic acid
- Ingress protection rating : IP67/IP69K



ELECTRICAL SPECIFICATIONS

- Supply voltage : 12-24Vdc nominal (8-32VDC)
- Standby current : <50 mA
- Communication : BUS CANopen, J1939



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MECHANICAL SPECIFICATION

- Standard connector : deutsch DT04-4P
- Switch life : 3 million operations
- Mounting studs : 2x #10-32 steel
- Rotary :
 - 16 ticks per revolution
 - the rotation torque :4.5 Ncm
 - the pushbutton travel :0.5 mm



MATERIALS

- Rubber specs : silicone rubber with polyurethane hardcoat
- PCB 1,6mm thick, Nema Grade FR-4, double clad with 1oz copper



EXTRA FEATURES AVAILABLE ON REQUEST

- Custom laser etched icons
- Specific connectors and cables
- Insert mounting tool

Allows the extraction of the insert. Place the tool between the insert and the rubber. Pull out the insert from its location.

Helps to the insert assembly by pushing the rubber and allows the insertion easily.



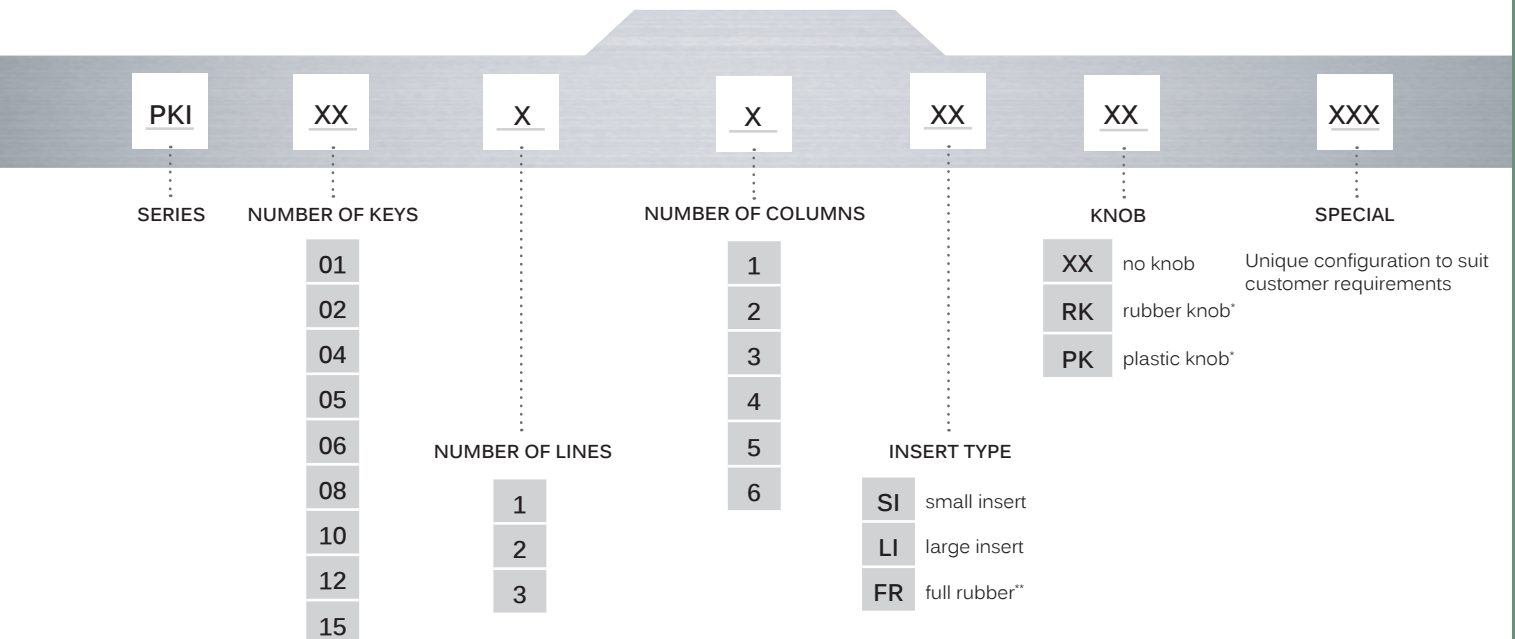
PKI-TOOL

PKI series

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BUILD YOUR PART NUMBER



* Only available with PKI1535SI product
** Available only on 2 lines product family

See below the existing part numbers:

PKI0111LI
PKI0212LI
PKI0515LI
PKI0422LI
PKI0824LI
PKI0616SI
PKI0422SI
PKI0422FR
PKI0623SI
PKI0623FR
PKI0824SI
PKI0824FR
PKI1025SI
PKI1025FR
PKI1226SI
PKI1226FR
PKI1535SI
PKI1535SIPK
PKI1535SIRK



ABOUT THIS SERIES

Some configurations are shown on the following pages. Other drawings are available on request.



Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

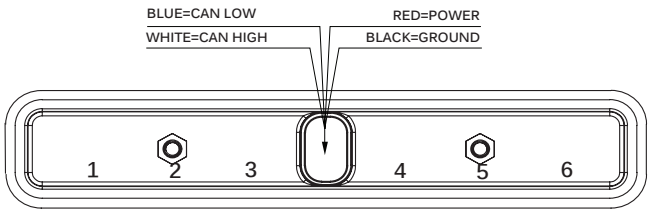
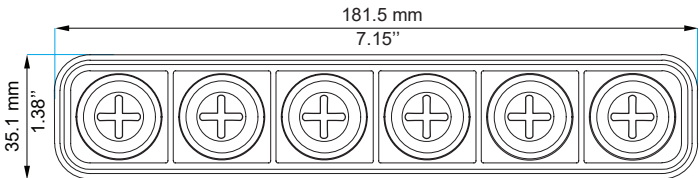
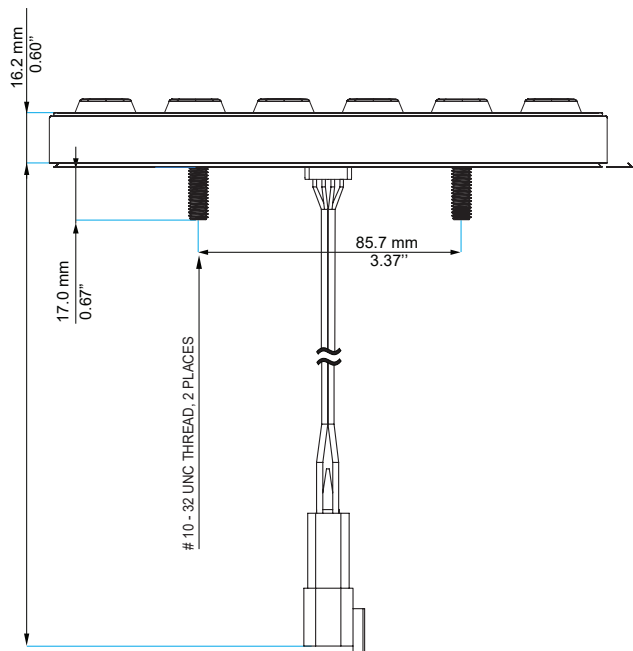
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - SMALL INSERTS (15MM) - 6 KEYS IN A ROW

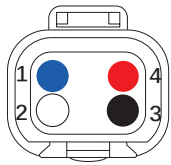


PKI0616SI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

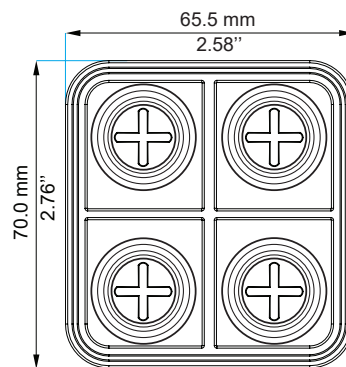
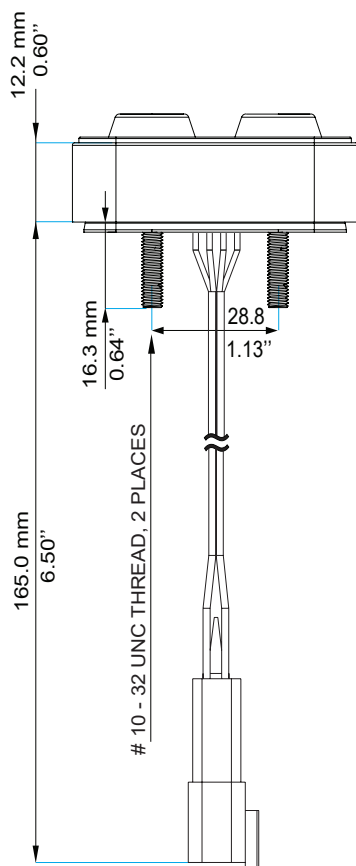
PKI series

Modular keypads with last minute snappable inserts

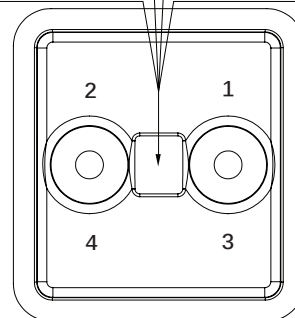
PKI SERIES - SMALL INSERTS (15MM) - 4 KEYS



PKI0422SI

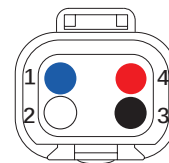


BLUE=CAN LOW
WHITE=CAN HIGH
RED=POWER
BLACK=GROUND



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

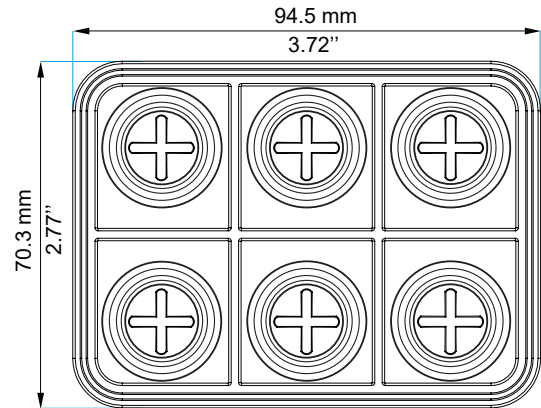
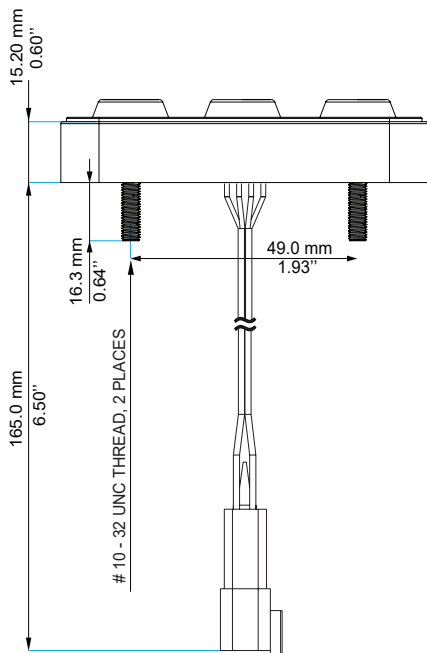
PKI series

Modular keypads with last minute snappable inserts

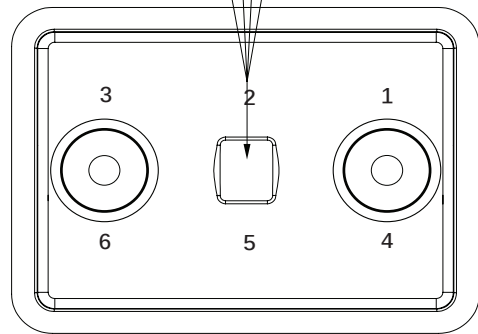
PKI SERIES - SMALL INSERTS (15MM) - 6 KEYS



PKI0623SI

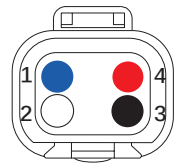


BLUE=CAN LOW
WHITE=CAN HIGH
RED=POWER
BLACK=GROUND



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

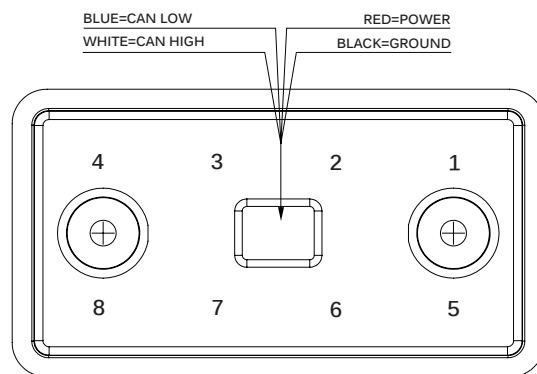
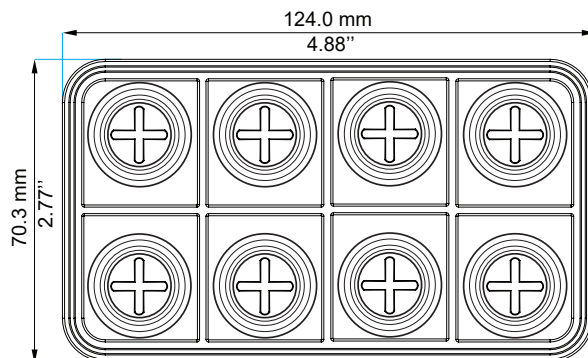
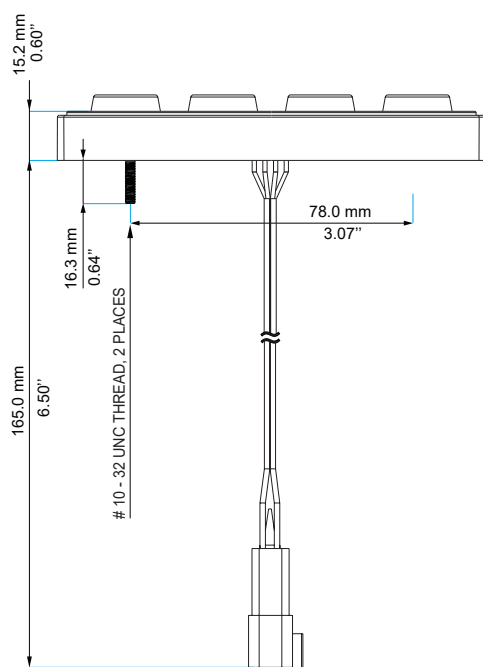
PKI series

Modular keypads with last minute
snappable inserts

PKI SERIES - SMALL INSERTS (15MM) - 8 KEYS



PKI0824SI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same
length



PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout;
however, some keypads may be supplied with
alternative pinouts or connectors.

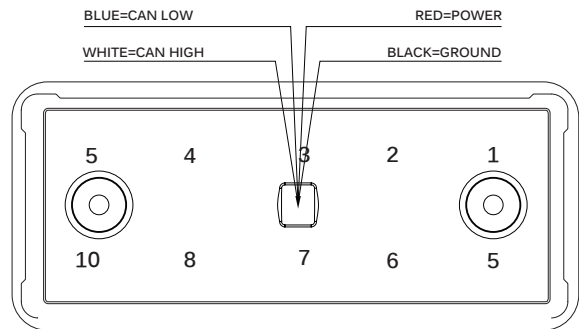
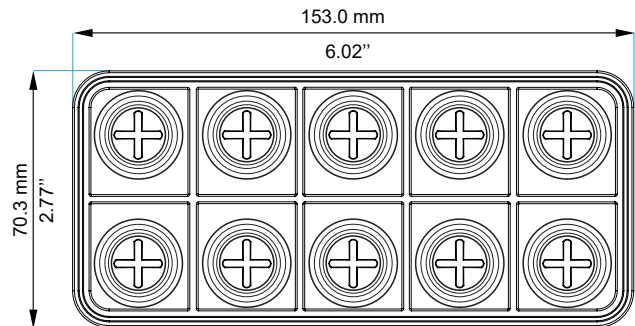
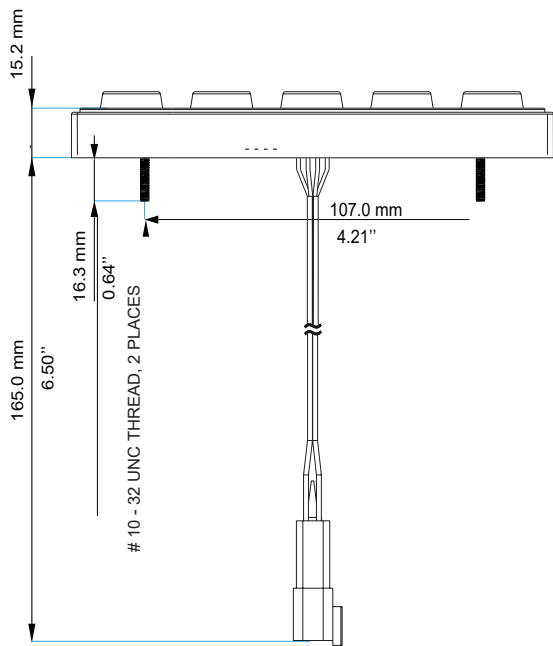
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - SMALL INSERTS (15MM) - 10 KEYS

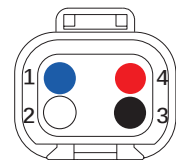


PKI1025SI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

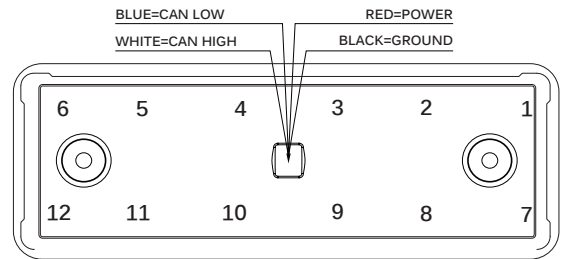
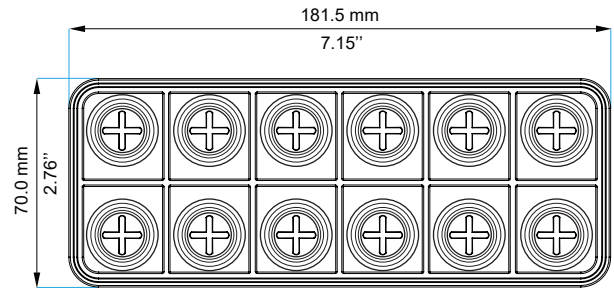
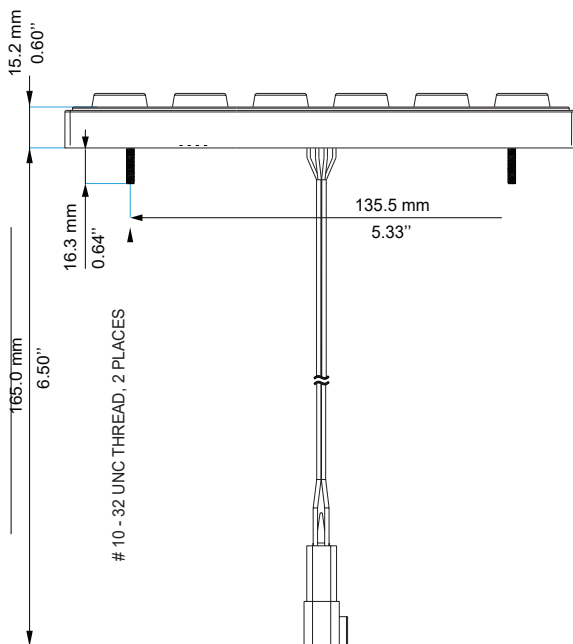
PKI series

Modular keypads with last minute
snappable inserts

PKI SERIES - SMALL INSERTS (15MM) - 12 KEYS

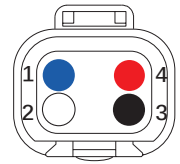


PKI1226SI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same
lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout;
however, some keypads may be supplied with
alternative pinouts or connectors.

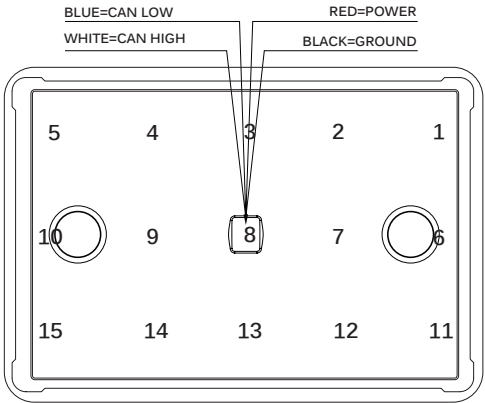
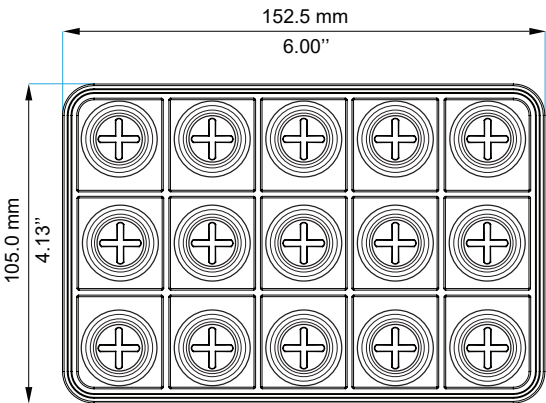
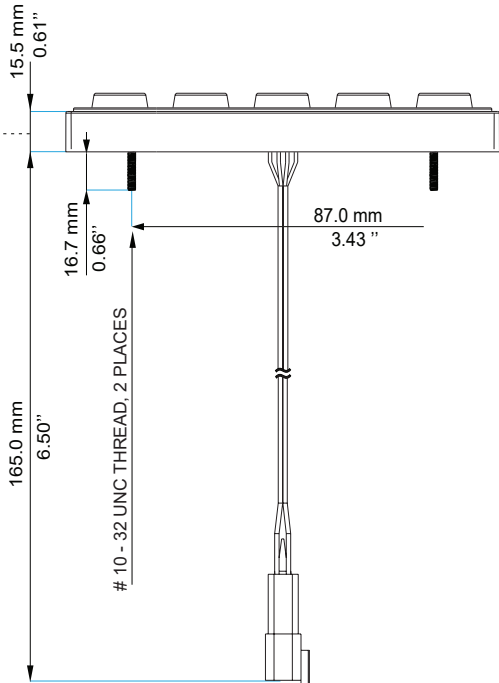
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - SMALL INSERTS (15MM) - 15 KEYS

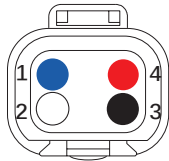


PKI1535SI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

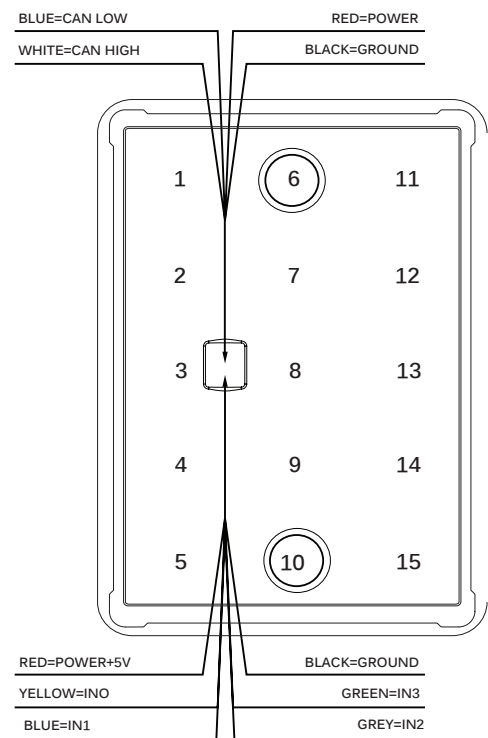
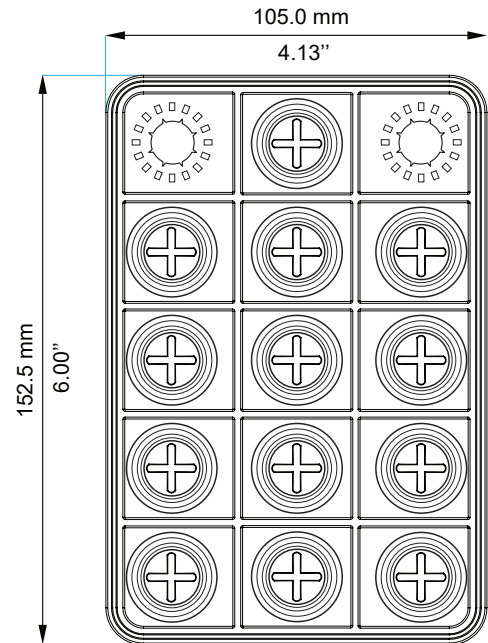
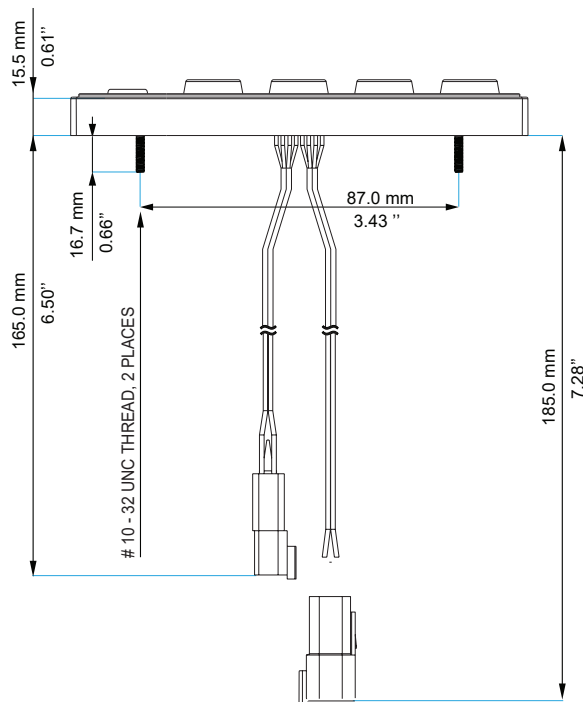
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - SMALL INSERTS (15MM) - 13 KEYS AND TWO PUSH-ENABLED ROTARY ENCODERS (PLASTIC KNOB OR RUBBER KNOB WITH REPLACEABLE ICON INSERTS)



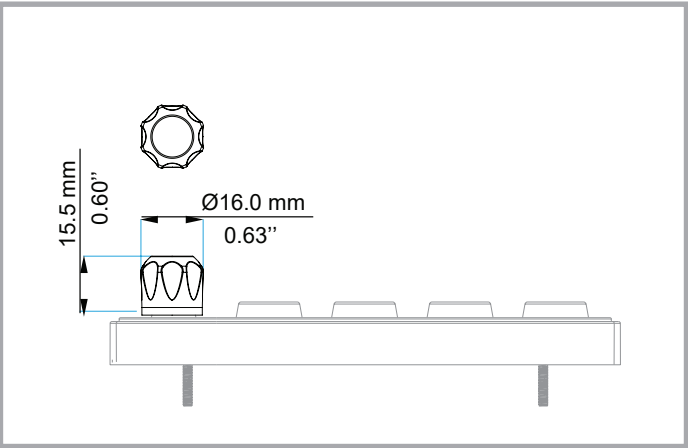
PKI1535SIPK-Plastic Knob
PKI1535SIRK-Rubber Knob



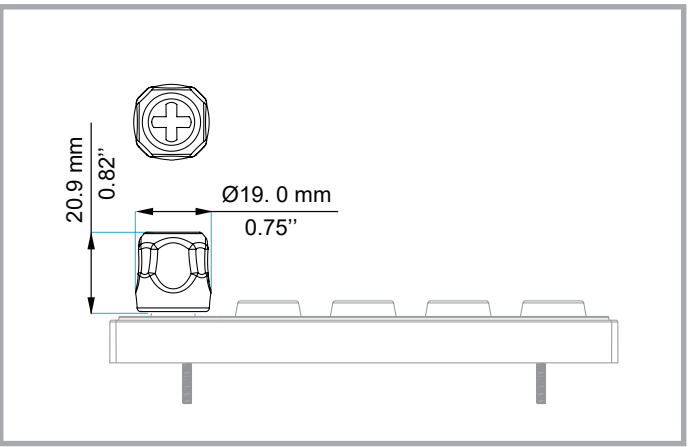
PKI series

Modular keypads with last minute snappable inserts

P VERSION

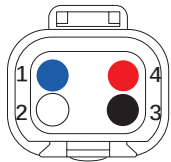


R VERSION



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.



WIRE SIDE

PIN	COLOR	FUNCTION
1	Red	Power+5V
2	Yellow	IN0
3	Blue	IN1
4	Grey	IN2
5	Green	IN3
6	Black	GND

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

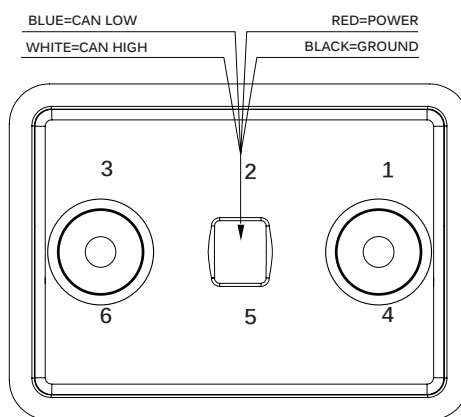
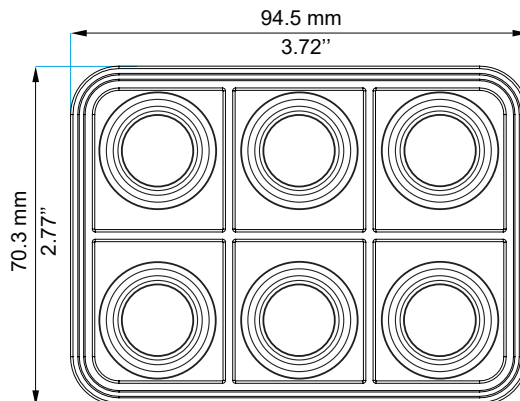
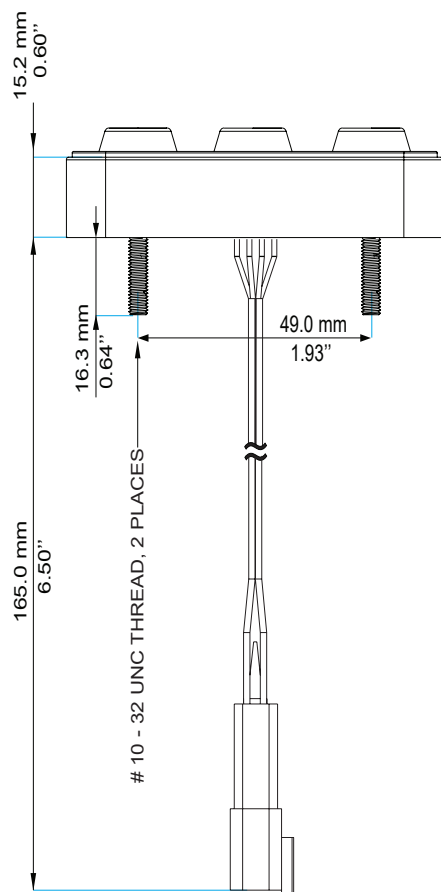
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - 6 KEYS - FULL RUBBER
THIS SERIES HAS A SOLID RUBBER KEY FACE INSTEAD OF A REMOVABLE INSERT.

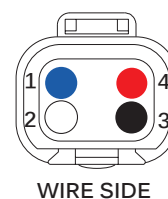


PKI0623FR



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : 1,8Nm - 16lbf-in

All connection wire are the same length



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

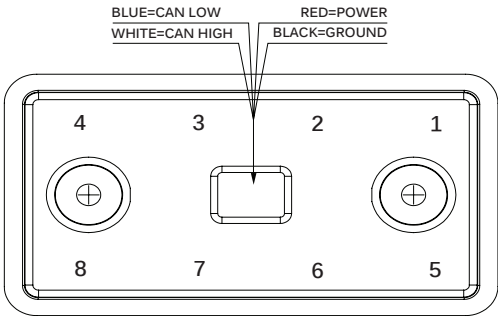
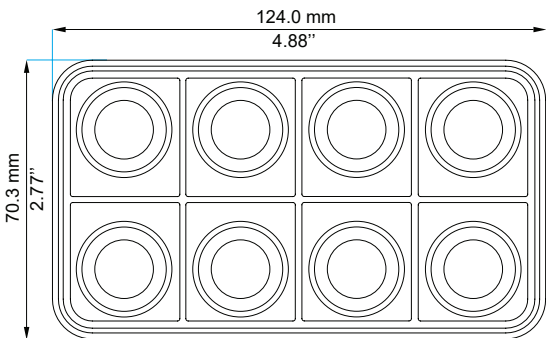
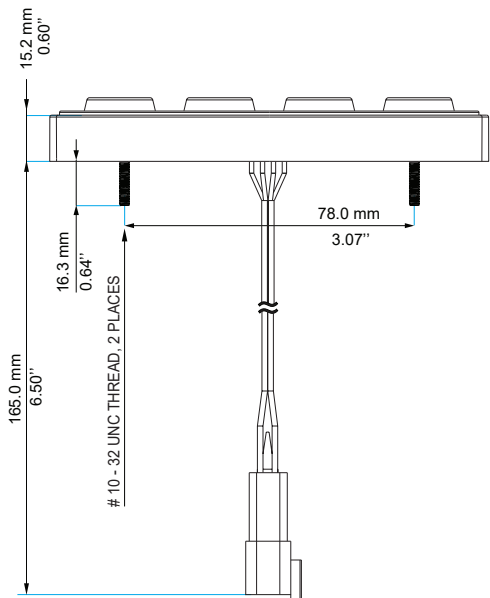
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - 8 KEYS - FULL RUBBER
THIS SERIES HAS A SOLID RUBBER KEY
FACE INSTEAD OF A REMOVABLE INSERT.

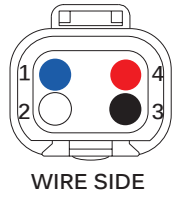


PKI0824FR



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

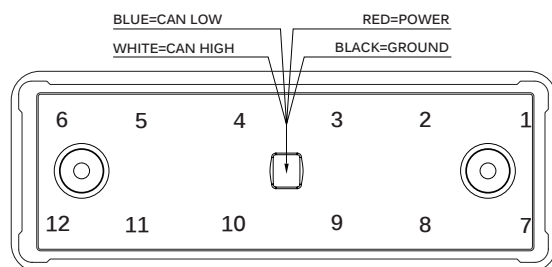
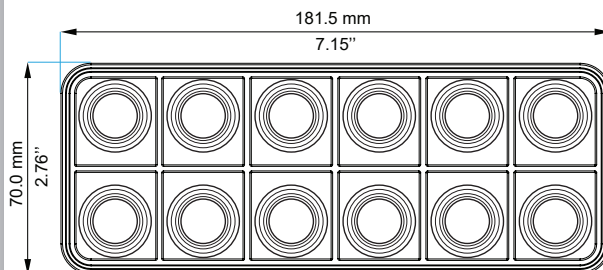
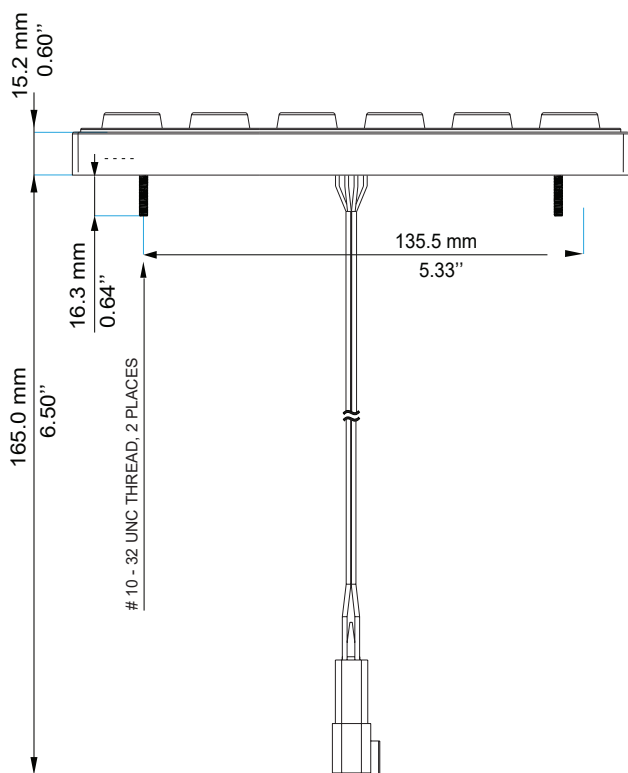
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - 12 KEYS - FULL RUBBER
THIS SERIES HAS A SOLID RUBBER KEY FACE INSTEAD OF A REMOVABLE INSERT.



PKI1226FR



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

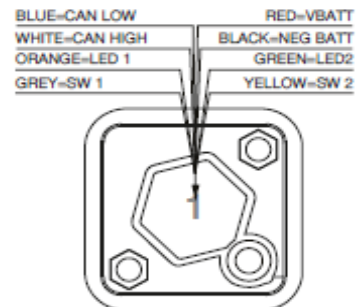
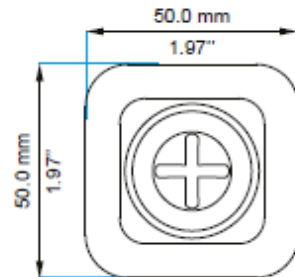
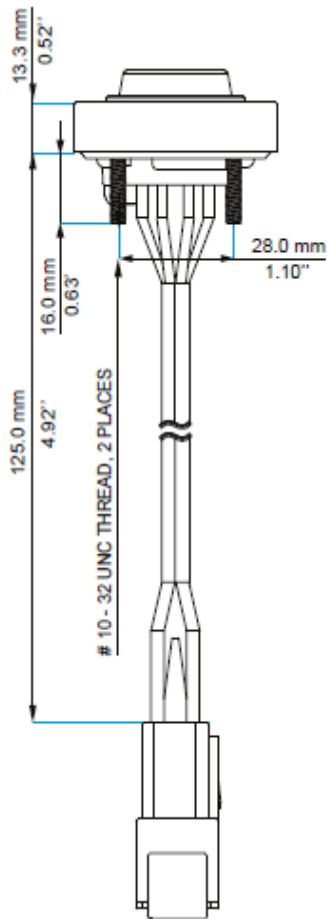
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - LARGE INSERTS (24MM) - 1 KEY IN A ROW

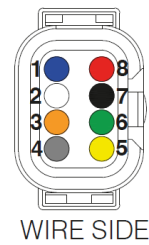


PKI0111LI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Orange	LED 1
4	Grey	SW 1
5	Yellow	SW 2
6	Green	LED 2
7	Black	Negative battery
8	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

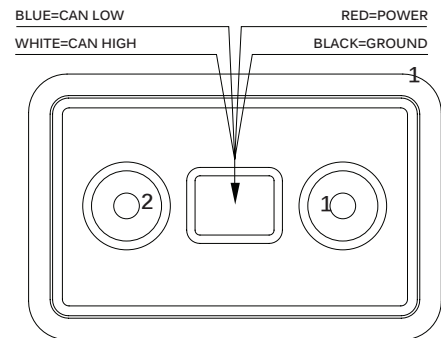
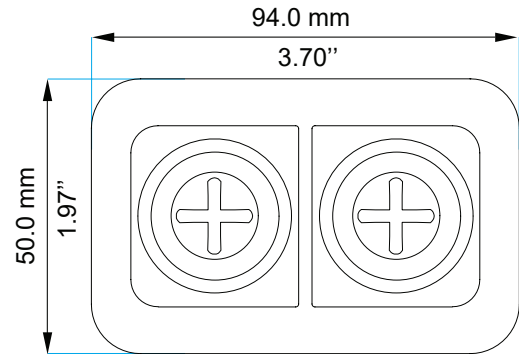
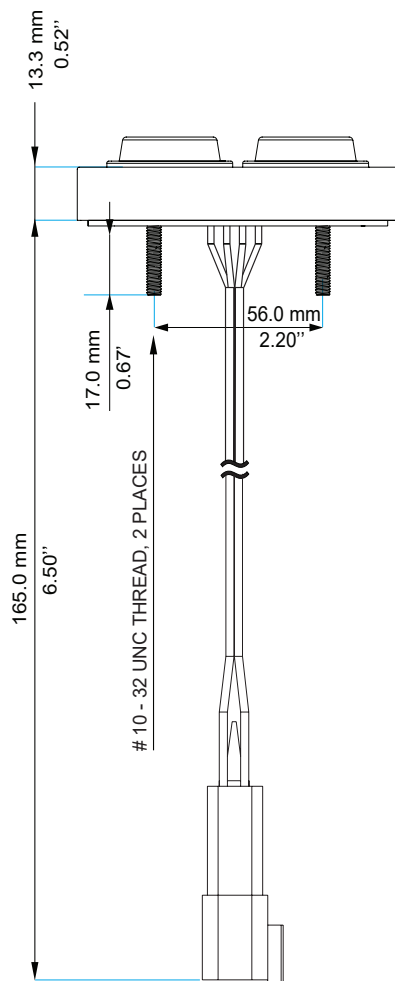
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - LARGE INSERTS (24MM) - 2 KEYS IN A ROW

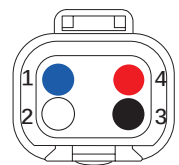


PKI0212LI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

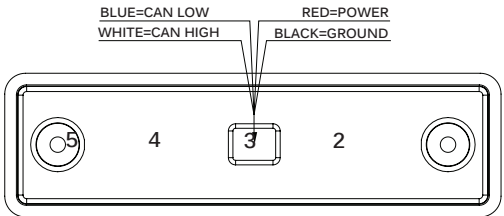
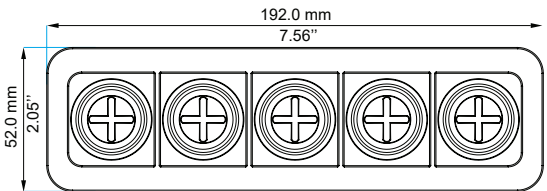
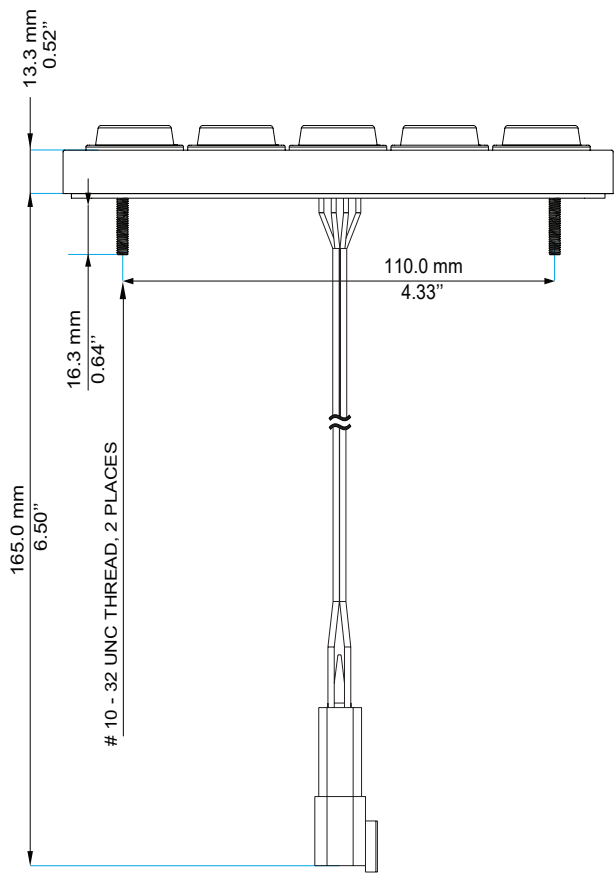
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - LARGE INSERTS (24MM) - 5 KEYS IN A ROW

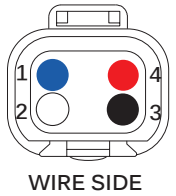


PKI0515LI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

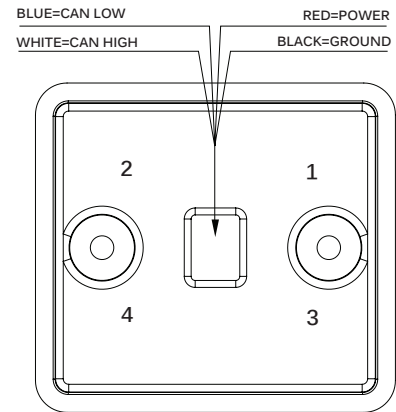
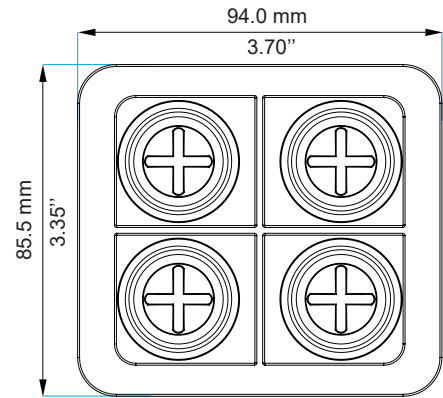
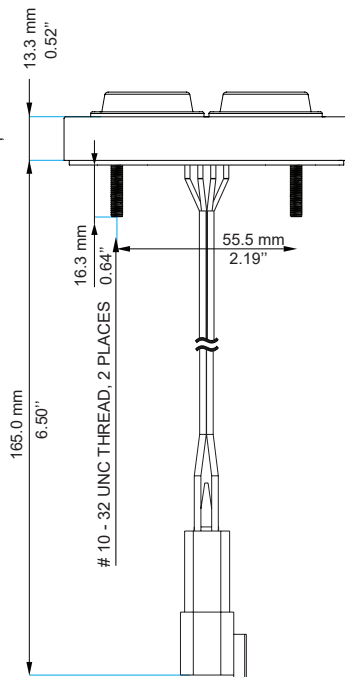
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - LARGE INSERTS (24MM) - 4 KEYS

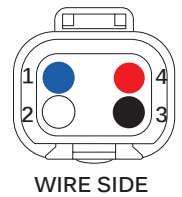


PKI0422LI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



WIRE SIDE

PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.

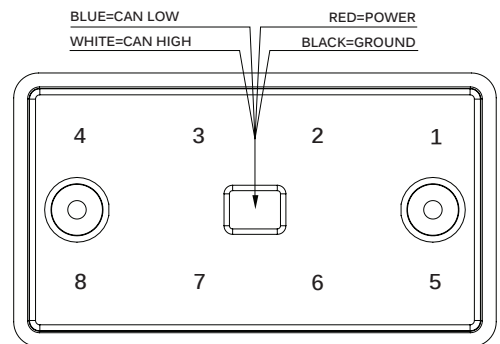
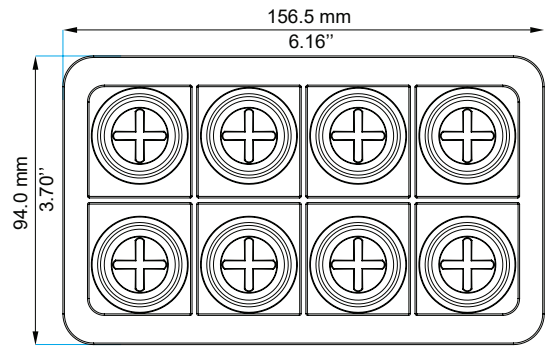
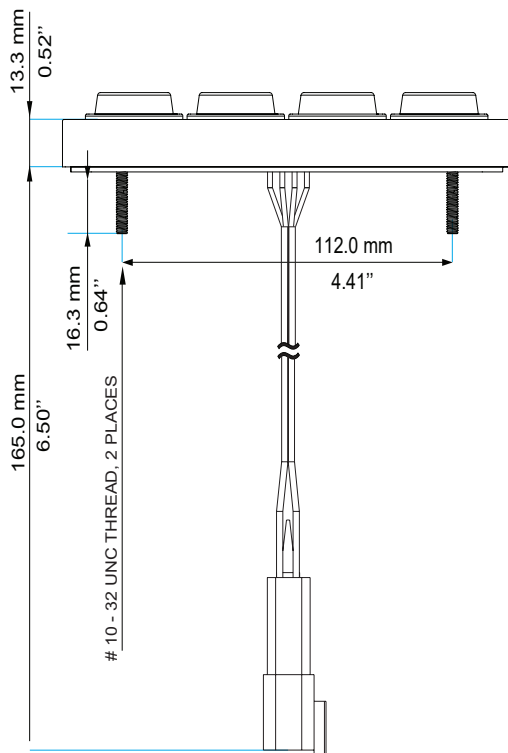
PKI series

Modular keypads with last minute snappable inserts

PKI SERIES - LARGE INSERTS (24MM) - 8 KEYS

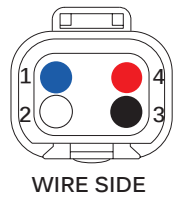


PKI0824LI



MOUNTING NOTES:
Nuts thread : 2x #10-32
Maximum torque : :1,8Nm - 16lbf-in

All connection wire are the same lenght



PIN	COLOR	FUNCTION
1	Blue	CAN L
2	White	CAN H
3	Black	Negative battery
4	Red	Vbatt. (12-24V)

The one illustrated above is the standard pinout; however, some keypads may be supplied with alternative pinouts or connectors.