

  
**E11 10R iConnex  
Response  
Multiple Single  
Switch and  
Relay**



# Intellitec E11 10R iConnex Response Multiple Single Switch and Relay User Manual

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**Intellitec E11 10R iConnex Response Multiple Single Switch and Relay**



## Product Specifications

- **Input Voltage (Volts DC):** 12/24V
- **Max Input Current (A):** 60
- **Standby Current Consumption (mA):** 290
- **Isolation mode Current Consumption (mA):** 178 IP Rating
- **Weight (kg):** Not specified
- **Dimensions L x W x D (mm):** 290 x 178 x 77

## FAQ

- **Q:** Who should carry out the installation of this product?
- **A:** Installation must be carried out by competent personnel with adequate knowledge of electrical installations.
- **Q:** Where can I find the latest documents for the products?
- **A:** You can find the latest documents on our website: [www.intellitecmv.com](http://www.intellitecmv.com)

## PRODUCT SPECIFICATION

Input Voltage (Volts DC)	12/24V
Max Input Current (A)	60
Standby Current Consumption (mA)	35 mA $\pm$ 10
Isolation mode Current Consumption (mA)	0 mA
IP Rating	IP20
Weight (kg)	2.5 kg
Dimensions L x W x D (mm)	290 x 178 x 77

## INPUTS

16x Digital (Pos/Neg Configurable)
2x Voltage Sense (Analog)
2x Temperature Sensors
2x Vehicle CAN
1x 3rd Party CAN
1x LIN
1x Intelli CAN

## OUTPUTS

24x Low Power Outputs (2A Max)
12x Medium Power Outputs (10A Max)
4x High Power Outputs (30A Relay Controlled)
6x Low Current Positive Signal Coil Driver (1A)
6x Low Current Negative Signal Coil Driver (1A)
Type D Siren Amplifier (1x 200W or 2x 100W)

## CAN BUS – Baud Rates

50 Kbits/s
83.33 Kbits/s
100 Kbits/s
125 Kbits/s
250 Kbits/s
500 Kbits/s
666 Kbits/s
1000 Kbits/s

**INSTALLATION**

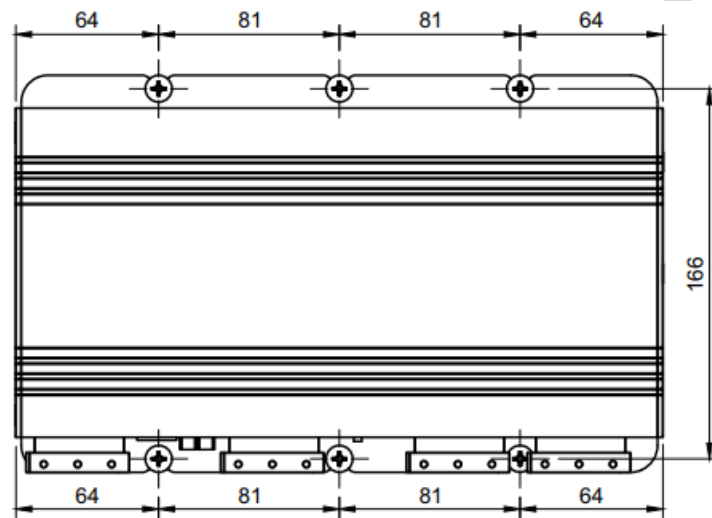
**Schematic:(mm)**



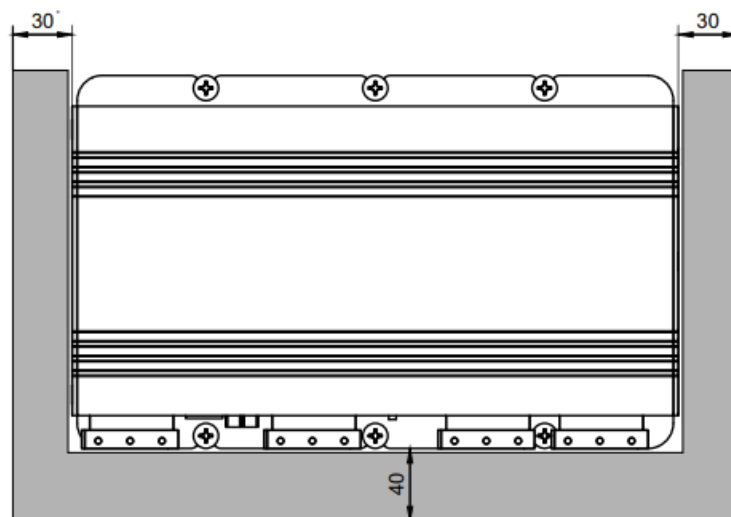
**Schematic:(mm) Mounting**

Schematic:  
(mm)  
Mounting

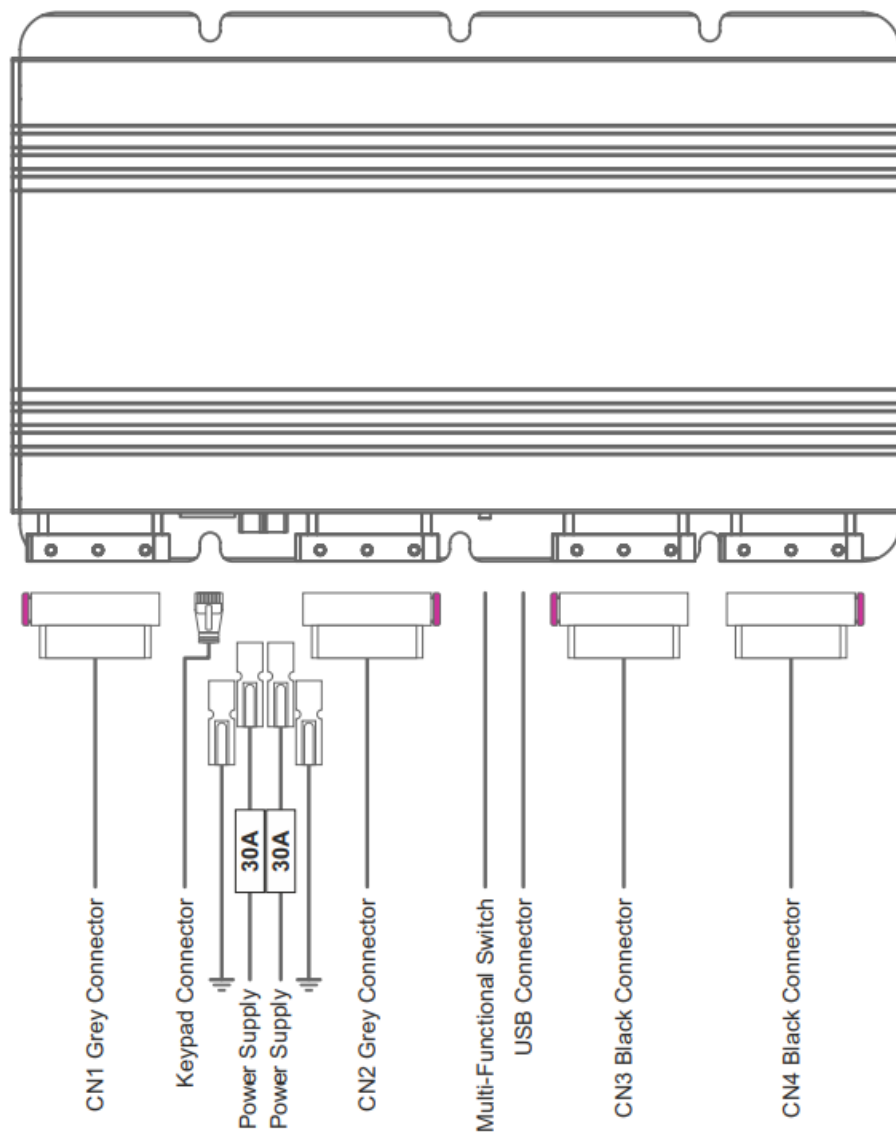
M6 Pan Head Screw  
Advised Torque (9Nm)



Minimum required spacing around the unit.



Schematic:



## Connector Plug Wiring

Connector	Description
CN1 Grey Connector	Grey Automotive Connector Housing 24 Way



#### Pin Out

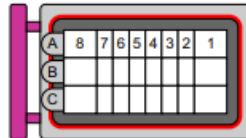
A1 - FET 10A Output 2  
A2 - VSense 2  
A3 - Telematics Positive 4  
A4 - Telematics Positive 3  
A5 - Telematics Positive 2  
A6 - Telematics Positive 1  
A7 - VSense 1  
A8 - FET 10A Output 1

B1 - FET 10A Output 4  
B2 - Telematics Negative 4  
B3 - Telematics Negative 3  
B4 - Telematics Positive 6  
B5 - Telematics Positive 5  
B6 - Telematics Negative 2  
B7 - Telematics Negative 1  
B8 - FET 10A Output 3

C1 - FET 10A Output 6  
C2 - Telematics Negative 6  
C3 - Keypad VBAT  
C4 - Keypad ICAN High  
C5 - Keypad ICAN Low  
C6 - Keypad Ground  
C7 - Telematics Negative 5  
C8 - FET 10A Output 5

#### Description

#### Cable Entry View



Connector	Description
CN2 Grey Connector	Grey Automotive Connector Housing 24 Way



#### Pin Out

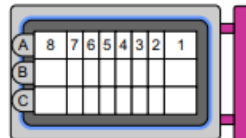
A1 - FET 10A Output 8  
A2 - Chassis 2 CCAN Low  
A3 - Chassis 2 CCAN High  
A4 - Chassis 1 VCAN Low  
A5 - Chassis 1 VCAN High  
A6 - Lightbar LKAN Low  
A7 - Lightbar LKAN High  
A8 - FET 10A Output 7

B1 - FET 10A Output 10  
B2 - HL Input Siren 2  
B3 - Temperature Data T2/LIN  
B4 - Temperature Ground  
B5 - Temperature Data T1  
B6 - Temperature 5V  
B7 - HL Input Siren 1  
B8 - FET 10A Output 9

C1 - FET 10A Output 12  
C2 - HL Input Siren 8  
C3 - HL Input Siren 7  
C4 - HL Input Siren 6  
C5 - HL Input Siren 5  
C6 - HL Input Siren 4  
C7 - HL Input Siren 3  
C8 - FET 10A Output 11

#### Description

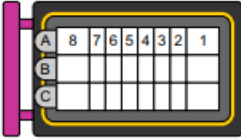
#### Cable Entry View



Connector	Description
CN3 Black Connector	Black Automotive Connector Housing 24 Way



Cable Entry View

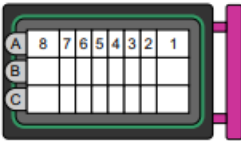


Pin Out	Description
A1 - Relay 2 87	
A2 - FET 2A Output 6	
A3 - FET 2A Output 5	
A4 - FET 2A Output 4	
A5 - FET 2A Output 3	
A6 - FET 2A Output 2	
A7 - FET 2A Output 1	
A8 - Relay 1 87	
B1 - Relay 2 87a	
B2 - FET 2A Output 12	
B3 - FET 2A Output 11	
B4 - FET 2A Output 10	
B5 - FET 2A Output 9	
B6 - FET 2A Output 8	
B7 - FET 2A Output 7	
B8 - Relay 1 87a	
C1 - Relay 2 30	
C2 - Speaker Aux -	
C3 - HL Input 4	
C4 - HL Input 3	
C5 - HL Input 2 - (Neg Wake)	
C6 - HL Input 1 - (Pos Wake)	
C7 - Speaker Aux +	
C8 - Relay 1 30	

Connector	Description
CN4 Black Connector	Black Automotive Connector Housing 24 Way



### Cable Entry View



Pin Out	Description
A1 - Relay 4 87	
A2 - FET 2A Output 18	
A3 - FET 2A Output 17	
A4 - FET 2A Output 16	
A5 - FET 2A Output 15	
A6 - FET 2A Output 14	
A7 - FET 2A Output 13	
A8 - Relay 3 87	
B1 - Relay 4 87a	
B2 - FET 2A Output 24	
B3 - FET 2A Output 23	
B4 - FET 2A Output 22	
B5 - FET 2A Output 21	
B6 - FET 2A Output 20	
B7 - FET 2A Output 19	
B8 - Relay 3 87a	
C1 - Relay 4 30	
C2 - Speaker Siren -	
C3 - HL Input 8	
C4 - HL Input 7	
C5 - HL Input 6	
C6 - HL Input 5	
C7 - Speaker Siren +	
C8 - Relay 3 30	

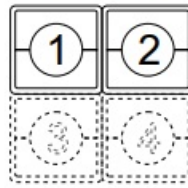
## Connector Plug Wiring



Connector	Description
Power Connector	Red Anderson Powerpole Connector Housing



Cable Entry View

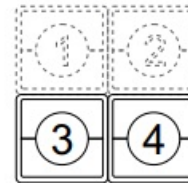


- 1 - + DC (Positive 30 Amp max)
- 2 - + DC (Positive 30 Amp max)
- 3 - Ground
- 4 - Ground

Connector	Description
Power Connector	Black Anderson Powerpole Connector Housing



Cable Entry View



- 1 - + DC (Positive 30 Amp max)
- 2 - + DC (Positive 30 Amp max)
- 3 - Ground
- 4 - Ground

Connector	Description
Keypad Connector	CAT 5 Straight - RJ45



- 1 - Ground
- 2 - Engine Wake Neg
- 3 - Engine Wake Pos
- 4 - Keypad Positive
- 5 - ICAN Hi
- 6 - ICAN Lo
- 7 - Mic
- 8 - PA - IN

## MULTIFUNCTION SWITCH

The switch on the front of the module is multifunctional depending on how it is interacted with. Using the information below, the different modes can be used:

- 5 Second Hold. Hold During Power Up Erase the program form the unit.
- Enable / Disable the Bluetooth and GPS capabilities of the module. (If Present)

## ICONNEX GUI

- The iConnex Response and Patrol Keypads can be programmed via the iConnex GUI software package.
- To Download the GUI please visit: [www.intellitecmv.com/pages/downloads](http://www.intellitecmv.com/pages/downloads)
- The iConnec GUI is the utility to write and upload programs to the module

- When the blue LED is ON, that signifies there is CAN traffic.

- When the blue LED FLASHES, that signifies a CAN state change for a selected CAN message. When the blue LED is OFF, that signifies there is no CAN traffic being received

### **GREEN is the Intelli CAN status LED**

- When the green LED is ON, that signifies the module has power.
- When the green LED FLASHES, that signifies communication.
- When the green LED is OFF, that signifies the module has no power.

### **RED is an Error LED**

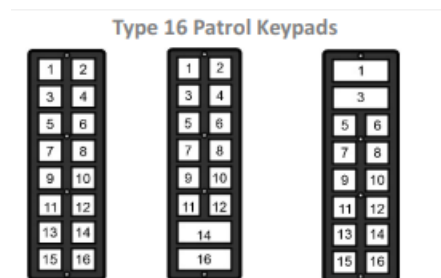
- When the red LED is ON, that signifies there is an error.
- Using the iConnex GUI the error log can be used to identify the errors. Once the error logs are clear the red LED will go OFF.



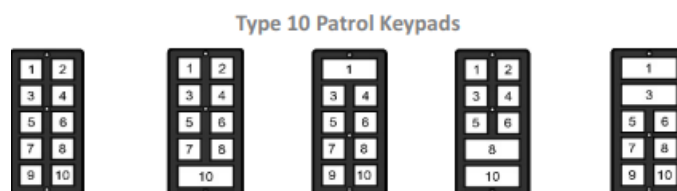
## **KEYPAD**

### **Connex Response Patrol Keypads**

- ICX-SW16B Type 16 Patrol Keypad – Bottom Cable Mount 8×2 Buttons
- ICX-SW16T Type 16 Patrol Keypad – Top Cable Mount 8×2 Buttons
- ICX-SW16B-14B Type 16 Patrol Keypad – Bottom Cable Mount 6×2+2 Bottom Buttons
- ICX-SW16T-14B Type 16 Patrol Keypad – Top Cable Mount 6×2+2 Bottom Buttons
- ICX-SW16B-14T Type 16 Patrol Keypad – Bottom Cable Mount 6×2+2 Top Buttons
- ICX-SW16T-14B Type 16 Patrol Keypad – Top Cable Mount 6×2+2 Top Buttons



- ICX-SW10B Type 10 Patrol Keypad – Bottom Cable Mount 5×2 Buttons
- ICX-SW10T Type 10 Patrol Keypad – Top Cable Mount 5×2 Buttons
- ICX-SW10B-09B Type 10 Patrol Keypad – Bottom Cable Mount 4×2+1 Bottom Button
- ICX-SW10T-09B Type 10 Patrol Keypad – Top Cable Mount 4×2+1 Bottom Button
- ICX-SW10B-09T Type 10 Patrol Keypad – Bottom Cable Mount 4×2+1 Top Button
- ICX-SW10T-09T Type 10 Patrol Keypad – Top Cable Mount 4×2+1 Top Button
- ICX-SW10B-08B Type 10 Patrol Keypad – Bottom Cable Mount 3×2+2 Bottom Buttons
- ICX-SW10T-08B Type 10 Patrol Keypad – Top Cable Mount 3×2+2 Bottom Buttons
- ICX-SW10B-08T Type 10 Patrol Keypad – Bottom Cable Mount 3×2+2 Top Buttons
- ICX-SW10T-08T Type 10 Patrol Keypad – Top Cable Mount 3×2+2 Top Buttons



- ICX-SW12R Type 12 Patrol Keypad – Right Cable Mount 12 x Buttons Inline
- ICX-SW12R-10R Type 12 Patrol Keypad – Right Cable Mount 10+2 Right Buttons Inline
- ICX-SW12R-10L Type 12 Patrol Keypad – Right Cable Mount 10+2 Left Buttons Inline



## ACCESSORIES

### icon next Response Accessories & Fitting Kits

- ICX-R-LOOM iConnex Response Installation Wiring loom
- ICX-R-YSC iConnex Patrol Keypad Y-Splitter Cable
- ICX-R-FIT iConnex Response Fitting Kit

PP45 RED	Anderson Power Powerpole Red Connector Housing
PP45 BLACK	Anderson Power Powerpole bLACK Connector Housing
CON0070	Automotive Connector Housing Black Receptacle 24 Ways
CON0071	Automotive Connector Housing Grey Receptacle 24 Ways
CON0072	Connector Accessory Violet Locking Cam 24 Ways Female Holder
CRIMP001	Sicma-3Plus Female 1.5mm Crimp (211CC2S1160P)
CRIMP002	Sicma-3 Series Female Crimp 2.8mm (211CC3S2160)
CAB0001	RJ45 Cat 6 5M Cable Black
CAB0003	Heavy Duty Power Connectors PP30 #12-16 Contact Low Detent
CON0074	RJ45 Modular Coupler Black
DS18B20	IConnex Temperature Sensor




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The instructions within this booklet (User's Manual) must be read thoroughly before any installation work, testing or general use. We recommend this booklet is kept in a safe place that can be easily retrieved for any future referral. Installation must be carried out by competent personnel with adequate knowledge of electrical installations. All necessary precautions must be taken to ensure this product is fitted correctly, securely and safely into the desired application. This product must not interfere with road safety or OEM safety systems fitted to the vehicle. All necessary checks must be carried out by installer to ensure this device is used only in the intended application and also does not conflict with any road laws in all countries the vehicle may be driven within. Intellitec MV Ltd reserves the right to update this document (User's Manual) without notification at any time.

- You will find the latest documents for our products on our website: [www.intellitecmv.com](http://www.intellitecmv.com)

### Documents / Resources

	<a href="#">Intellitec E11 10R iConnex Response Multiple Single Switch and Relay</a> [pdf] User Manual E11 10R, E11 10R iConnex Response Multiple Single Switch and Relay, iConnex Response Multiple Single Switch and Relay, Multiple Single Switch and Relay, Single Switch and Relay, Switch and Relay, Relay
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### References

- [Vehicle Power Distribution & Electrical Systems from Intellitec](#)
- [User Manual](#)

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