

# EDGE

OEM

HVAC + R

CABIN / MUX



## MAIN FUNCTIONS

REFRIGERATION

CLIMATIZATION

CABIN CONTROL

MULTIPLEX

SPECIAL FUNCTIONS

PRE-HEATER TIMER

## CHARACTERISTICS

- Available as HMI Human Machine Interface (CAN Bus)
- Customizable Design
- Customizable Functions
- Multifunction
- One-Wire Communication (optional)
- Function Hourmeters
- Customer Logo on panel
- Integrated or remote I/Os (ECU)
- USB interface through ECU (optional)
- Telematics through additional module
- Bluetooth and WiFi Modules Interface
- Two temperature scales
- Automotive connector
- Rubber buttons keyboard
- DIN Radio Size

## CONFIGURATION OPTIONS

INPUTS: Analogs and Digitals.

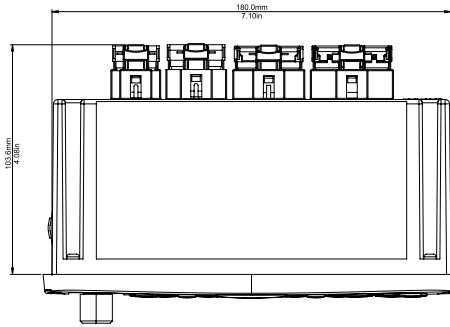
OUTPUTS: Negative Digitals or through external ECU: Analogs, Positive Digitals, Bridge (flap motor) and PWM.

COMMUNICATION: ECU Module or Telematics Module.

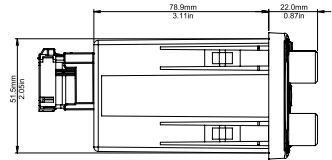
## AVAILABLE FOR



# EDGE



**PANEL CUTOUT:  
1 DIN 75490 RADIO SIZE**



Approximated weight: 250g

## CONNECTORS



MCP 9 cable paths  
Part Number: 8-968971-1  
Terminal - PN: 1-968851-1  
Manufacturer: Tyco Electronics



MCP 12 cable paths  
Part Number: 8-968972-1  
Terminal - PN: 1-968851-1  
Manufacturer: Tyco Electronics



MCP 15 cable paths  
Part Number: 8-968973-1  
Terminal - PN: 1-968851-1  
Manufacturer: Tyco Electronics



MCP 18 cable paths  
Part Number: 8-968974-1  
Terminal - PN: 1-968851-1  
Manufacturer: Tyco Electronics

## TECHNICAL DATA

OPERATING VOLTAGE	12 VDC / 24 VDC
VOLTAGE RANGE	10 VDC o 30 VDC
MAXIMUM VOLTAGE	32 VDC during 5min
MAXIMUM CURRENT PER OUTPUT	500 mA
OUTPUT SHORT-CIRCUIT	Protected *
REVERSE POLARITY	Protected *
OPERATING TEMPERATURE	-40°C to +85°C / -40°F o +185°F (Extended or normal temperature options)
STORAGE TEMPERATURE	-40°C to + 85°C / -40°F to + 185°F
TEMPERATURE SENSOR	NTC - For other sensor types please consult with our technical team
PROTECTION DEGREE	IP 54
MAXIMUM CURRENT CONSUMPTION	120mA @ 12VDC / 70mA @ 24VDC **
STANDBY CONSUMPTION	60mA @ 12VDC / 40mA @ 24VDC **

\* According to product configuration. \*\* Consumption may vary according to customer specifications.  
We keep the right to update or change information regarding products without prior notice.

## FUNCTIONS UNDER REQUEST



WI-FI



BLUETOOTH



CELL PHONE  
INTERFACE



CAN BUS



REMOTE I/O  
NETWORK



DATA  
LOGGER



INTERFACES  
CUSTOMIZÁVEIS



HMI





2 KNOBS\*



3 KNOBS\*

Choose the best option for your system

PIN CN1	EDGE 2 E 3 KNOBS   POSSIBLE CONFIGURATIONS - HARDWARE 1				
1	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
2	GND	OR	--	OR	--
3	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
4	ANALOG INPUT	OR	DIGITAL INPUT	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
7	POWER SUPPLY	OR	--	OR	--
8	GND	OR	--	OR	--
9	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
10	VBAT - RTC	OR	--	OR	--
11	ONE WIRE	OR	DIGITAL INPUT	OR	--
12	DIGITAL OUTPUT NEGATIVE 0.5A	OR	--	OR	--
PIN CN2					
1	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H1
2	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H4
3	ANALOG INPUT		DIGITAL INPUT		--
4	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H1
5	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H4
6	GND		--		--
7	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H2
8	PWM PUSH PULL		--		--
9	ANALOG INPUT		DIGITAL INPUT		--
10	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H2
11	DIGITAL OUTPUT NEGATIVE 0.5A		--		--
12	GND		--		--
13	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H3
14	DIGITAL OUTPUT POSITIVE 0.5A		--		--
15	ANALOG INPUT		DIGITAL INPUT		--
16	DIGITAL OUTPUT NEGATIVE 0.5A		DIGITAL OUTPUT POSITIVE 0.5A		BRIDGE H3
17	POWER SUPPLY 5V - TRANSDUCER		--		--
18	GND		--		--



Choose the best option for your system

PIN CN1	EDGE BOTÕES CAN   POSSIBLE CONFIGURATIONS- HARDWARE 2			
1	ANALOG INPUT	DIGITAL INPUT	--	--
2	ANALOG INPUT	DIGITAL INPUT	--	--
3	CAN H	--	--	--
4	GND	--	--	--
5	GND	--	--	--
6	CAN L	--	--	--
7	VBAT - RTC	--	--	--
8	ANALOG INPUT	DIGITAL INPUT	--	--
9	ANALOG INPUT	DIGITAL INPUT	--	--
PIN CN2				
1	POWER SUPPLY	--	--	--
2	GND	--	--	--
3	ANALOG OUTPUT 50mA	--	--	--
4	POWER SUPPLY	--	--	--
5	GND	--	--	--
6	GND	--	--	--
7	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	PWM OUTPUT	--
8	DIGITAL OUTPUT NEGATIVE 0.5A	--	--	--
9	ANALOG OUTPUT 50mA	--	--	--
10	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	PWM OUTPUT	BRIDGE H1
11	DIGITAL OUTPUT POSITIVE 0.5A	--	--	--
12	DIGITAL OUTPUT NEGATIVE 0.5A	--	--	--
13	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	PWM OUTPUT	BRIDGE H1
14	DIGITAL OUTPUT NEGATIVE 0.5A	DIGITAL OUTPUT POSITIVE 0.5A	PWM OUTPUT	--
15	ANALOG OUTPUT 50mA	--	--	--

PIN CN1	EDGE BOTÕES - USB	POSSIBLE CONFIGURATIONS - HARDWARE 3
1	DIGITAL OUTPUT NEGATIVE 0.5A	ONE WIRE
2	DIGITAL OUTPUT NEGATIVE 0.5A	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	--
6	DIGITAL OUTPUT NEGATIVE 0.5A	--
7	ANALOG INPUT	DIGITAL INPUT
8	ANALOG INPUT	DIGITAL INPUT
9	ANALOG INPUT	DIGITAL INPUT
PIN CN2		
1	ANALOG INPUT	DIGITAL INPUT
2	GND	--
3	GND	--
4	ANALOG INPUT	DIGITAL INPUT
5	GND	--
6	GND	--
7	CAN H	--
8	POWER SUPPLY	--
9	ANALOG INPUT	DIGITAL INPUT
10	CAN H	--
11	POWER SUPPLY 5V - TRANSDUCER	--
12	ANALOG INPUT	DIGITAL INPUT

