

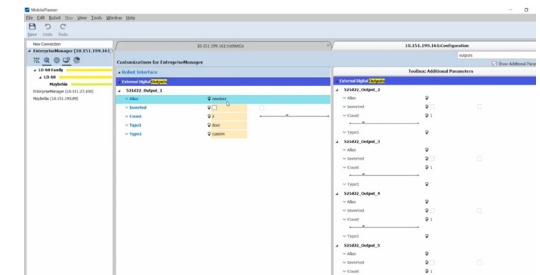
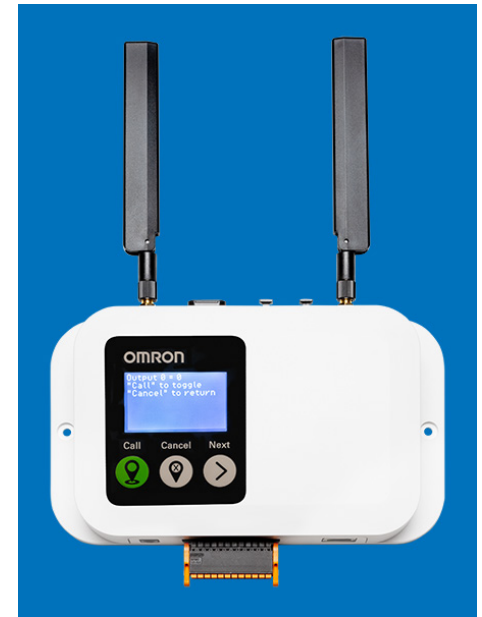
OMRON Mobile I/O Box for Autonomous Mobile Robots

Easily call a mobile robot with the push of a button

The OMRON Mobile I/O Box is an I/O device that can be used to summon an autonomous mobile robot (AMR) to a designated location by just pressing a button. It can also be used as an External Digital I/O for the control of hard-wired devices that are associated with AMR related actions like opening a door for an AMR to pass through or turning on a signal to tell the AMR has arrived.

Key features

- Quick and easy to set up AMR applications in factories and warehouses
- LCD screen displays status of AMR and Mobile I/O Box for ease of operation
- 6 Inputs and 6 Outputs so that one Mobile I/O Box can be used to perform call function and other I/O functions simultaneously.



Call an AMR

Connects wirelessly to OMRON Fleet Manager, which determines the best available AMR for your job.

Open Doors

Fleet Manager can signal the Mobile I/O Box to open an automatic door allowing the AMR to pass through.

Activate Automation

Turn on a light, trigger an audio signal or activate another external device to help make your operations run even smoother.

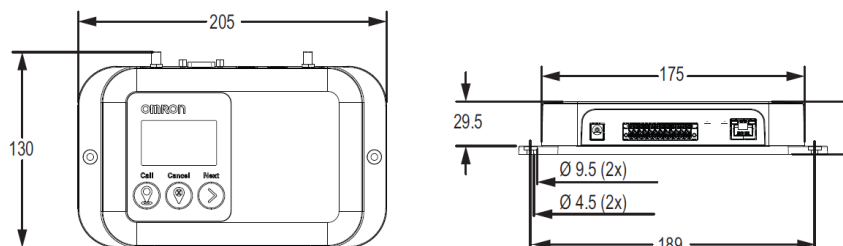
Configure Quickly and Easily

Interface within OMRON Fleet Manager using MobilePlanner allows for quick and easy set up.

OMRON Mobile I/O Box for Autonomous Mobile Robots

Electrical	
Supply Voltage	12 to 24 VDC
Operating Voltage Range	10.8 to 28.8 VDC (-10% to +20%)
Power Consumption	9 W max.
Isolation	None
Protection	Reverse power, over current (resettable)
Connector	Barrel jack, 5.5 x 2.5 mm (inner pin positive)
I/O	
IN0, IN1 (Internally powered)	ON: 5 mA OFF: 0.5 mA Non-isolated
IN2 ... IN5 (Externally powered)	ON: 8.8 VDC min./5 mA min. OFF: 1.1 VDC max./0.5 mA max. Isolation 500 V between outputs and system
OUT0 ... OUT5 (Relay SPST-NO)	24 VDC, 2 A resistive load Isolation 500 V between outputs and system Lifetime 100,000 cycles at 2 A max.
Display	
Screen Type	LCD, FSTN negative
Backlight Technology	LED
Backlight Control	Dimmable
Backlight Lifetime	100,000 hours at 25°C
Text Color	White
Resolution	128 x 64 pixels
Effective Display Area	47.99 mm x 27.83 mm

Mobile I/O Box (PN 23419-802) Dimensions



Power Supply (PN 23419-812)

A power supply is available for the Mobile I/O Box as a separate OMRON product. It is recommended that the Mobile I/O Box is used with this power supply.



Specifications

Input voltage: 100 - 240 VAC
 Output voltage: 24 VDC
 Output current: 500 mA
 Connector: Barrel jack
 Cable length: 1.83 m
 Adapters: EURO (type C), USA/JPN (type A), UK (type G), AUS/CHN (type I)
 Standards: IEC protection Class II, cULus

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 specifications are subject to change without notice.