

The LOYBT-IO1 is a compact I/O module with qualified Bluetooth SIG Mesh interface. It provides 12 universal I/Os and 6 digital outputs (4 x Relay, 2 x TRIAC).

It integrates perfectly into the LOYBT product line. Bluetooth Mesh enabled LOYTEC controllers allow individual configuration of all IOs (tailored to the respective application) and provide the corresponding data points.

The LOYBT-IO1 can be supplied either with 24 V AC / 24 V DC (SELV) or alternatively via mains 85-240 V AC.

Features

- I/O Module with physical inputs and outputs
- Easy integration with Bluetooth Mesh enabled LOYTEC controllers
- Din rail mounting
- Bluetooth SIG qualified device, Bluetooth 5.4, Mesh Protocol 1.1, Mesh Model 1.1
- Firmware update over the air
- 12 x Universal I/O (4 x U, 4 x U, I, 4 x U, R)¹, 6 Digital Outputs (4 x Relay, 2 x TRIAC)

General Specifications

Dimensions (mm)	107 x 100 x 75 (L x W x H), 6 DU, DIM090
Installation	DIN rail mounting following DIN 43880, SMA-connector for external antenna
Purpose of control	Operating control
Construction of control	Independently mounted control
Feature of automatic action	Type 1
Operating conditions	0 °C to 50 °C, 10–90 % RH, noncondensing, degree of protection: IP40, IP20 (terminals), pollution degree 2
Power supply	24 VDC/ V AC SELV ±10 % via LPOW-2415B, or with an external power supply; 85-240 V AC, 50/60 Hz
Storage conditions	-20 °C to + 70 °C
Rated Impulse Voltage	2500 V
Interface	Bluetooth SIG Mesh
Bluetooth protocol conformance	Declaration ID: Design Number (DN) Q301729 contains qualified designs: 239299 (controller subsystem Bluetooth 5.4), 239354 (host subsystem Bluetooth 5.4), and 226841 (Mesh Protocol 1.1, Mesh Model 1.1)
Bluetooth & RF characteristics	Maximum output power: 0 dBm Frequency range: 2402 - 2480 Mhz
For use with	Bluetooth Mesh enabled LOYTEC controller (e.g. LPAD-7)

Specifications

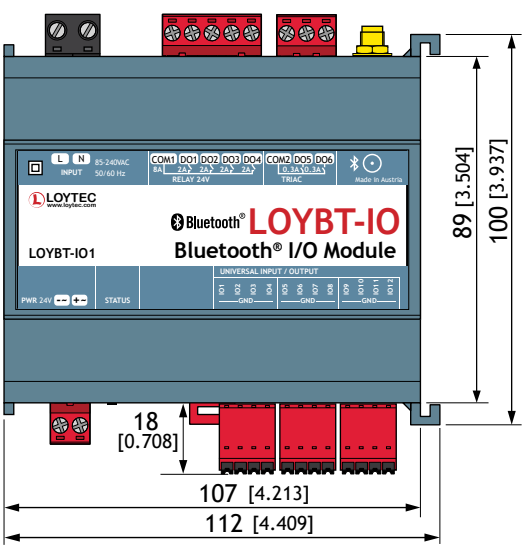
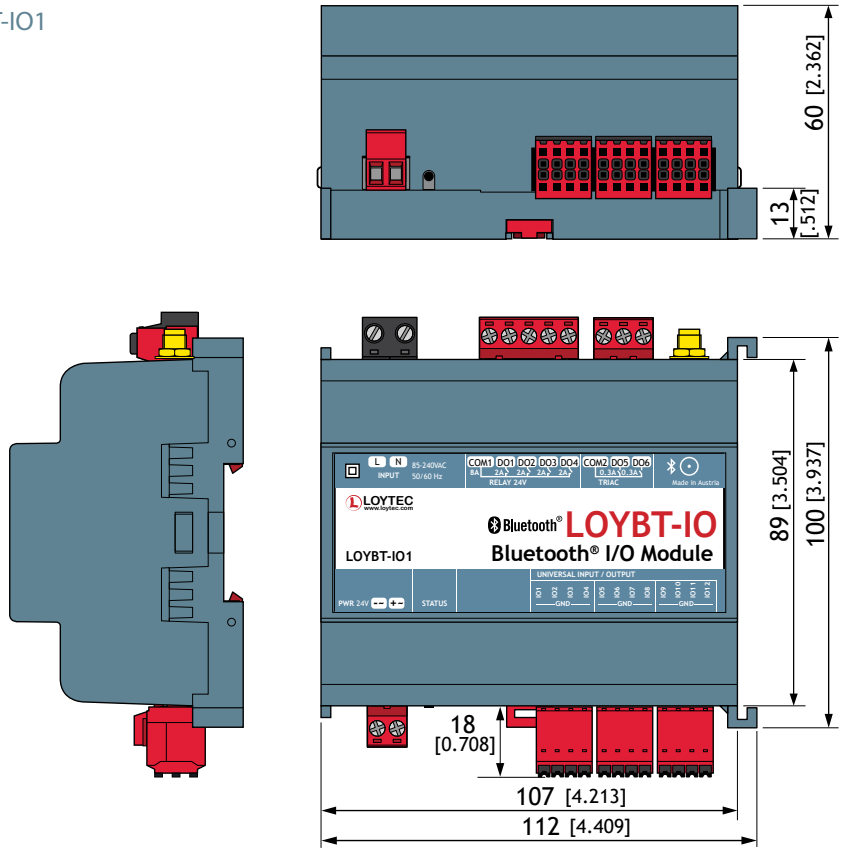
Power consumption	max. 1.7 W
Universal I/O (IO)	4 x Universal I/O (U), 4 x Universal I/O (U,I), 4 x Universal I/O (U,R) ¹
Digital Output (DO)	6 (4 x Relay 2A, 30V DC / 600mA, 125 V AC; 2 x TRIAC 0.3A, 24-240 V AC)
Digital Output specification	Please refer to the " General Input and Output Specification of LOYTEC devices " for more details.

Order number	Product description
LOYBT-IO1	LOYBT I/O Module: 12 x Universal I/O (U, I, R), 6 DO (4 x Relay; 2 x TRIAC)
LPOW-2415B	Power supply unit with power connector 24 VDC, 15 W
LPOW-2460B	Power supply unit with power connector 24 VDC, 60 W
L-TEMP2	External temperature sensor (NTC10K) for use with L-IOB Universal Inputs

¹ U: 0-10V input or 0-10V output, I: 4-20 mA input (only available on UIO 5-8), R: resistance measurement (only available on UIO 1-4)

Dimensions of the devices in mm and [inch]

DIM090 LOYBT-IO1



The products of LOYTEC electronics GmbH are subject to constant development. Therefore, LOYTEC reserves the right to modify technical specifications at any time without prior notice. The most recent datasheet can be downloaded from www.loytec.com.