Power packs

120–277 V power and 20 A switching for MINI low-voltage sensors

Made by B.E.G. Controls

Energio Sensors power packs turn line voltage into Class 2 24 V DC for MINI sensors and switch the lighting circuit. Snap one onto a junction box through a ½ in knockout, plug the sensor into the RJ-12 port, and the zone is done. Choose switching, switching with an HVAC/BMS contact, or switching with 1-10 V dimming.

20 A
@ 277 V AC switching

24 V DC
200 mA Class 2 output

50
drivers on PP-DIM 1-10 V

Features

- Universal 120–277 V AC input, 50/60 Hz
- 20 A at 277 V AC switching, 1 hp motor rating (switching models)
- 24 V DC / 200 mA Class 2 output powers sensors
- RJ-12 sensor port; splitter accessory connects multiple sensors
- Low-voltage momentary switch input for override or vacancy (manual-on) mode
- LED status and fault indicators; integral short-circuit and thermal protection
- ½ in threaded nipple with two lock nuts; UL 2043 plenum rated, RoHS
- ETL listed for the U.S. and Canada (UL 60730-1, CSA E60730-1)



Switching power pack



PP-DIM dimming power pack

Specifications

Specification	PP-1C-J	PP-A-J	PP-DIM-J
Supply	120–277 V AC, 50/60 Hz	120–277 V AC, 50/60 Hz	120–277 V AC, 50/60 Hz
Sensor power output	24 V DC / 200 mA, Class II	24 V DC / 200 mA, Class II	24 V DC / 200 mA, Class II
Control inputs	1 (motion); N.O. momentary switch or dry contact	2 (motion and HVAC); N.O. momentary switch or dry contact	1 (motion); N.O. momentary switch or dry contact
Switching	20 A @ 277 V AC, 1 hp	20 A @ 277 V AC, 1 hp	Switching relay
Auxiliary output	—	HVAC / BMS relay	—
Dimming output	—	—	1-10 V, max. 50 drivers

Specification	PP-1C-J	PP-A-J	PP-DIM-J
Protection	IP20 / Class III	IP20 / Class III	IP20 / Class III
Operating temperature	-4 °F to 122 °F (-20 °C to +50 °C)	-4 °F to 122 °F (-20 °C to +50 °C)	-4 °F to 122 °F (-20 °C to +50 °C)
Housing	UV- and shock-resistant 5VA	UV- and shock-resistant 5VA	UV- and shock-resistant 5VA
Mounting	½ in trade-size nipple, J-box	½ in trade-size nipple, J-box	½ in trade-size nipple, J-box
Listings	ETL (UL 60730-1, CSA E60730-1), UL 2043	ETL (UL 60730-1, CSA E60730-1), UL 2043	ETL (UL 60730-1, CSA E60730-1), UL 2043

Ordering information

Model	Item no.	Description
PP-1C-J-120-277V	97036	Single-relay switching power pack, J-box mount
PP-A-J-120-277V	97020	Switching power pack with auxiliary HVAC/BMS relay, J-box mount
PP-DIM-J-120-277V	97017	Switching + 1-10 V dimming power pack, daylight harvesting, J-box mount

Applications

- Offices, classrooms and conference rooms
- Warehouses and gymnasiums
- Corridors, healthcare and lab spaces
- Open-air parking garages, canopies, loading docks
- Any MINI sensor zone

Application notes

- One power pack per control zone. Connect the primary MINI sensor to the RJ-12 port; add secondaries with a splitter.
- Vacancy (manual-on): PP-A-J with a low-voltage momentary switch and the mode switch set to manual.
- PP-DIM-J output is 1-10 V (sinking); confirm driver compatibility for 0-10 V drivers.
- Values for PP-1C-J are from the PP-1-J published data; confirm against the current B.E.G. sheet before submittal.

Data from B.E.G. MINI-Sensor Application Guide (US), power pack data. Energio Sensors products are manufactured by B.E.G. Controls and specified, sold and supported in North America by Energio Brands. Specifications are subject to change; confirm against the manufacturer's current data before submittal. Product images courtesy of the manufacturer. All trademarks belong to their respective owners.