

COMP0100B/01 PBIM WH
Push-Button Interface Module

Specification Sheet

The COMP0100B/01 Push Button Interface Module (PBIM) is mains powered and integrates conventional push-button switches into the Signify Interact connected lighting system for wireless lighting control.

Installed behind third-party push-button switches/momentary switches, the module converts volt-free switch actions into wireless lighting control commands. It supports up to four independent dry-contact inputs that can be assigned to specific control actions through the Signify Interact Builder mobile app.

Safety

Warning
• Avoid touching live parts. • Do not use drivers with damaged housing and/or connectors. • Do not use drivers with damaged wiring. • Do not use damaged or defective contacts or housings. • Do not use damaged products. • The PBIM is mains-powered and the push-button inputs are not electrically isolated from mains. • Disconnect and verify isolation of the mains supply before accessing the device. Installation, servicing, and commissioning must be performed by qualified personnel in accordance with applicable electrical regulations.

System prerequisite

PBIM requires Light behavior V2. All devices in the group must run firmware 8.x.x or later, and the devices must be commissioned in a Light behavior V2-compatible network/group (version 6.0 or later). Updating device firmware alone does not make an existing group Light behavior V2 compatible. For existing projects, complete the applicable Light behavior V2 migration procedure before commissioning PBIM.

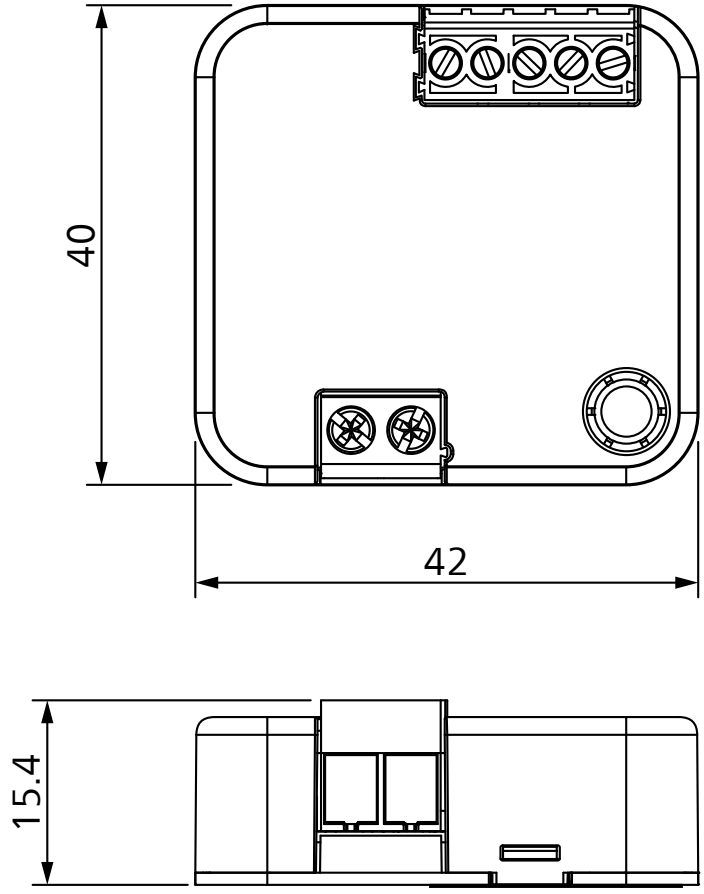
See the Light behavior V2 migration procedures in Signify Interact Builder commissioning guide for new projects, existing projects, and projects with or without gateways.

Functionality

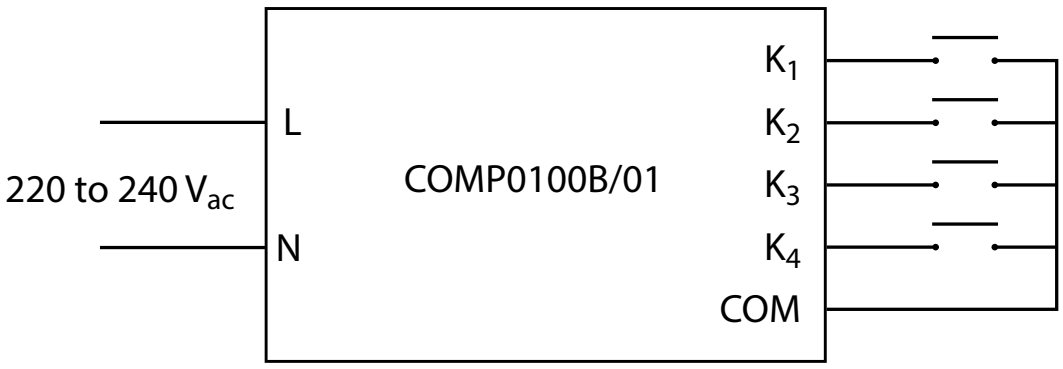
Features and benefits

- Compatible with standard momentary push-button switches from any manufacturer for use with existing switch designs and aesthetics.
- Four independently configurable push-button inputs for assignment of lighting control functions.
- Mains-powered device for installation in standard wall boxes, with a compact form factor for behind-switch mounting.
- ON/OFF control, dimming, scene recall, and color tuning functions.
- Short-press operation for ON/OFF control and press-and-hold operation for dimming and color tuning.
- Interact Ready device with Zigbee-based wireless communication and Bluetooth® Low Energy (BLE) commissioning.
- Device discovery, commissioning, and configuration through the Interact mobile app and web interface.
- Over-the-air (OTA) firmware update capability for future feature enhancements.
- Device diagnostics and health monitoring for maintenance and troubleshooting.

Dimensional drawing



Wiring drawing



K1 to K4: Volt-free dry-contact inputs
COM: Common terminal

Technical specifications

Physical data	
Dimensions (H x W x D)	42.0 × 40.0 × 15.4 mm (1.65 × 1.57 × 0.61 in)
Weight	19.5 g (0.69 oz)
Housing	Polycarbonate
Color	White
Protection rating	IP20
Electrical data	
Rated input voltage	220 V_{ac} to 240 V_{ac}
Rated input frequency	50 Hz
Power consumption (230 V_{ac}, 50 Hz)	< 0.5 W
Isolation between power supply and contact inputs	None (non-isolated) [1]
Push button interface electrical specifications	
Interface open voltage (V_{open}) – Push button not pressed	3.3 ±0.165 V
Interface closed voltage (V_{close}) – Push button pressed, contact resistance (Rcontact) < 10 Ω	< 0.4 V
Dry contact current (Idc) – Push button pressed	< 300 µA
Compliances and approvals [2]	
Regulatory markings	CE, UKCA
Safety certification	IECEE CB Scheme
Safety standard	IEC 60730-1
Radio Equipment Directive	Directive 2014/53/EU
Radio spectrum	ETSI EN 300 328
Radio EMC	• ETSI EN 301 489-1 • ETSI EN 301 489-17
Lighting equipment EMC	• EN IEC 55015 • EN IEC 61547
RF exposure	• EN IEC 62311 • EN 50665
RED cybersecurity	• EN 18031-1 • EN 18031-2 (N/A) • EN 18031-3 (N/A)
RoHS	Directive 2011/65/EU, as amended, including Commission Delegated Directive (EU) 2015/863
Hazardous substances	RoHS Directive 2011/65/EU, as amended by Directive (EU) 2017/2102 of November 2017
REACH	Regulation (EC) No 1907/2006
WEEE	Directive 2012/19/EU
ESD resistance	EN IEC 61547; tested according to EN 61000-4-2: ±4 kV contact discharge and ±8 kV air discharge, with performance criterion B
Surge immunity	EN IEC 61547; tested according to EN 61000-4-5 using a 1.2/50 µs voltage and 8/20 µs current combination wave: 1 kV line-to-line differential mode, with performance criterion B

[1] Push-button inputs are not electrically isolated from mains. Disconnect and verify the mains supply is de-energized before accessing the device.

[2] Standard references without an edition year indicate the applicable standard families and certification coverage. Refer to the related Declaration of Conformity, CB certificate and applicable assessment or test reports for exact editions, amendments and certification status.

Environment data	
Operating temperature	−20 °C to +45 °C (−4 °F to +113 °F)
Operating relative humidity	20% to 95%, non-condensing
Storage temperature	−25 °C to +65 °C (−13 °F to +149 °F)
Storage relative humidity	0% up to 95%, non-condensing
B10 Lifetime	> 100,000 hours

Communication	
Wireless communication	Zigbee Pro IEEE 802.15.4 WPAN
Commissioning	Bluetooth® Low Energy (BLE)
Transmission power	≤ 10 dBm
Zigbee and Bluetooth transmission distance	Approximately 15 m (590 in) line of sight

Order code

Product name	MOQ	Order code	Region of sale
COMP0100B/01 PBIM WH	5	9137 010 68303	Global (excluding North America); compatible with 220 V_{ac} to 240 V_{ac} mains supply.

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R02, 24 November 2026