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# Load Bypass Device

Improved dimming performance for problematic LED and CFL lamps



## Range

MMBP

Overview

The Diginet Load Bypass Device is designed to provide improved dimming and switching performance of some problematic LED and CFL lamps. The device can overcome the following issues which are occasionally seen when controlling some LED or CFL light sources via electronic dimmers, switches, timers or sensors:

- When switched off, the LED/CFL lights flicker, pulse on/off or do not switch off completely
- When switching on, the LED/CFL lights have difficulty turning on and the dimmer indicators flicker or pulse.

These issues can be encountered when controlling some LED/CFL lighting loads with the following control devices:

- Non-separately switched 2-wire (Active, Load) dimmers, electronic switches, timers or sensors
- Some 3-wire (Active, Load, Neutral) electronic dimmers, electronic switches, timers or sensors
- Mechanical air gap switches. Although not typical, some electronic load types, such as non-dimmable CFLs, can be sensitive to the off-state leakage current associated with mains wiring capacitance. Therefore, even when controlled with a mechanical air gap switch the lights can occasionally be seen to flicker when switched off.

The Load Bypass Device is wired in parallel with the load and can be retrofitted to existing lighting installations.

Features	Allows up to 4 Diginet LEDsmart* devices to be added to a circuit	Independent of maximum connected load	Shunts leakage current away from the connected lighting load
	without impacting load compatibility	Supplied with pre-terminated leads	Intrinsically thermally and electrically safe
	Small and light-weight enabling easy retrofit and new installation	Crimped terminations on lead for reliable connection to load	
	Line powered – draws only 2mA from		
	a DALI Line		

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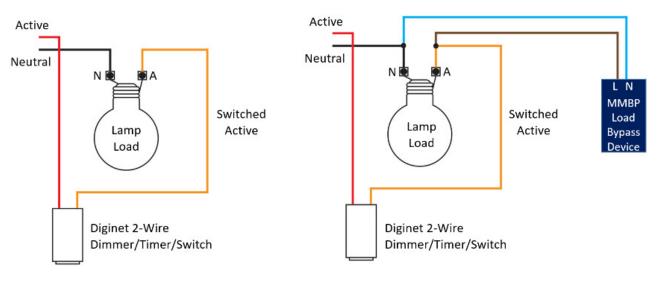
## **Specifications**

Parameter	Specification	
Operating Voltage	220-240Vac 50Hz	
Power Dissipation	100mW (Note: The device power dissipation is independent of the connected lighting load power)	
Max Ambient Temperature	t <sub>a</sub> max = 70°C	
Operating Humidity	10% - 95% RH, non-condensing	
Standards Compliance	AS/NZS CISPR15:2011 AS/NZS 61347-2-11:2003 IEC 61347-2-11	
Dimensions	49mm x 15mm x 11mm	
Weight	25g	
Connection Lead Type	Two core, double insulated, crimped ends Switched Active and Neutral connections	
Connection Lead Length	300mm	
Maximum wiring length	The load bypass device is independent of the wiring length	
Maximum Load	The load bypass device is independent of load connected to the control device(s)	

# Wiring

The Load Bypass Device is wired in parallel with the load (across the switched Active and Neutral). It is typically connected as shown in the diagrams below.

## 2-wire dimmer example



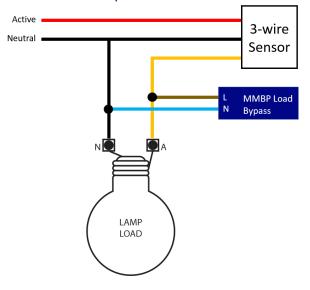
Before Load Bypass Device Installation

After Load Bypass Device Installation





## 3-wire sensor example



Approvals & Compliance



#### CONTACT INFORMATION

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