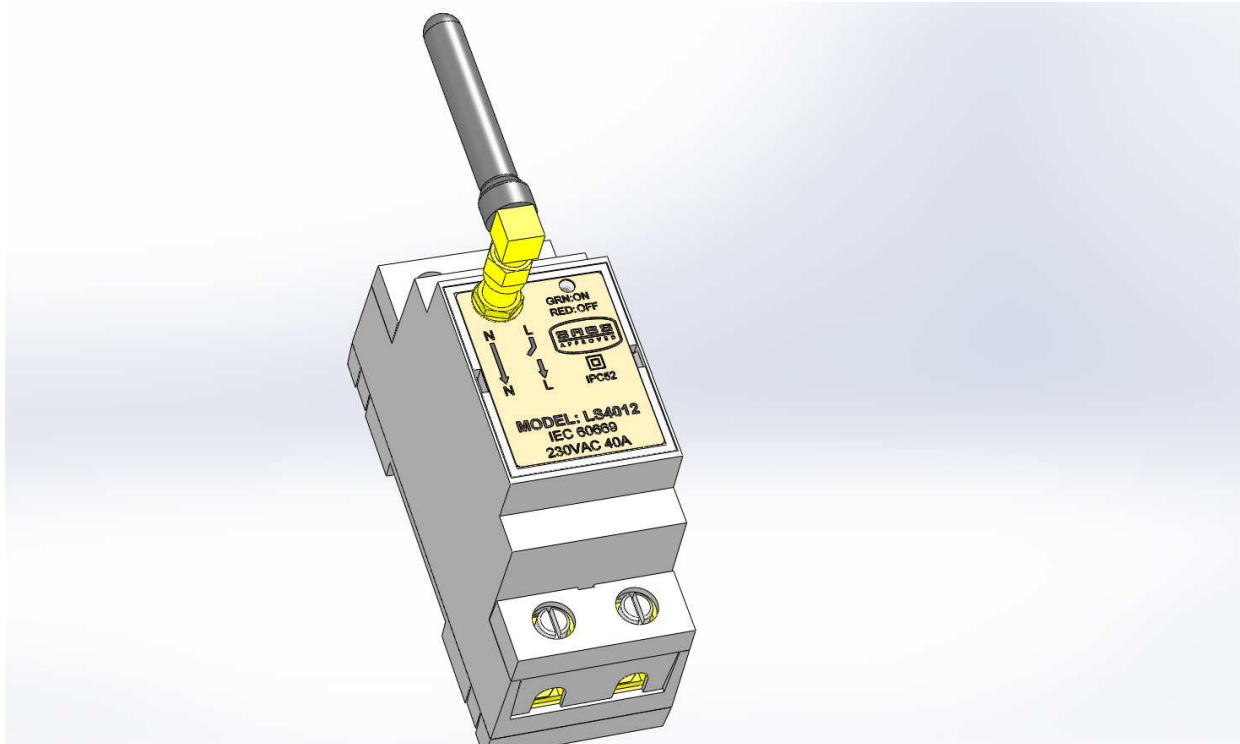


Single Phase Load Switch **LS4012**

Technical data



The LS4012 load switch is a South African design.

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LS4012 Technical Specification

LS4012 General Description

The load switch can be used to optimize power consumption during peak hour periods by remotely disconnecting appliances that consume large amounts of electricity, i.e. geyser, pool pump motor, air conditioning, under floor heater, etc. It consists of a relay switch and a RF communication module as part of a demand response energy efficiency system. It has two-way communication that has the following benefits:

Feedback to the power utility that the load is indeed switched off or on

Feedback if the device is faulty

Feedback if the load switch is circumvented in conjunction with a smart electricity meter

Load control switches can be a powerful tool to prevent black-outs when electricity transmission or generation sources are insufficient.

The load switch can be set to automatically switch off for two hours at predefined peak consumption periods after which time all load switches will automatically switch on again over a 10 minute random interval.

Load switches can also be forced to switch off immediately for intervals of either 15, 30, 60 or 120 minutes respectively under user control.

All controls can be done for a single, group or all load switches at once respectively.

LS4012 Technical Specifications

General		IEC Specification	
Voltage		Safety testing to IEC 60669	
Nominal Voltage UN	220 – 240V	Radio Modem testing to IEC 60950	
		EMC testing to IEC 61000	
Voltage Range	80 – 115%Un	Protection Class II	
Voltage Withstand	420V Continuous	Impermeability to	IP 52
Current		Power Consumption	
Current maximum	≤ 40A	Normal mode Rx	< 5VA
Operating Behaviour		Environmental	
Remote switching of load	< 0.5s	Temperature range	
Load off interval	15, 30, 60, 120 minutes	Operation	-10°C to +45°C
Load reconnect	automatic or command	Storage	-20°C to +55°C
Use algorithm to prevent simultaneous reconnect			
Load switch status	Red/green LED	Case Material	
Weight and Dimensions		DIN Rail housing, Bottom, Top Cover & Terminal Cover flame retardant polycarbonate	
Weight	≤ 150 g	Connections	
Dimensions			
Width	36mm	External Antenna	SMA
Height without ext antenna	65mm	Mounting	DIN-Rail
Length	90mm		
		Terminals	
Communication			
		Size	
		6mm	
Wireless Radio Modem	ISM band		
Protocol	Propriety		