

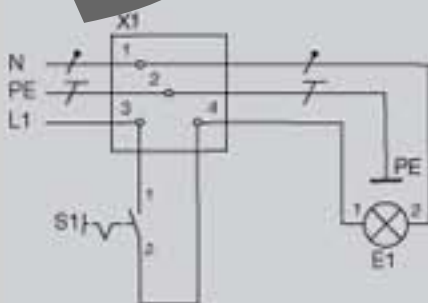
Experimenting - Learning - Understanding

Installation Technology - Symbols and diagrams

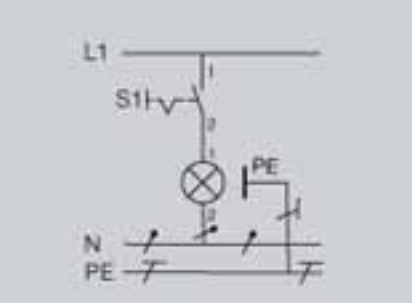
Symbol	Description	Symbol	Description	Symbol	Description
Appliances		Switches/buttons		Lights	
	Miscellaneous electrical appliance		General switch		General lamp
	Miscellaneous electric oven		Single-pole on/off switch (1/1 switch)		General fitting for fluorescent light
	Microwave oven		Circuit diagram symbol		Fitting for n fluorescent lights
	Oven		Single-pole two-circuit switch (5/1 switch)		Light with switch
	Hotplate		Circuit diagram symbol		Light with dimmer
	Hot water boiler		Two-way switch (6/1 switch)		Safety light
	Continuous flow water heater		Circuit diagram symbol		Safety light with built-in power supply
	Washing machine		Cross-over switch Intermediate switch (7/1 switch)		Spotlight
	Tumble dryer		Circuit diagram symbol		Wire with wire
	Dishwasher		Dimmer switch	Conductors/wiring	
	Boiler		Push button		Wire, heading upwards
	Infra-red radiator		Illuminated push button		Wire, heading downwards
	Infra-red grill		Remote control switch		Wire, heading up and down
	Hair dryer		Electric switch		Concealed cable embedded in plaster
	Air conditioner		Specific conductor designations		Concealed cable behind wall
	Refrigerator		Neutral conductor (N)	Terminals/distribution boxes	
	Freezer		Middle conductor (M)		General terminal box (empty)
	Chronometer		Protective earth (PE)		Terminal box
	Popper		Protective earth neutral (PEN)		Building distribution box
	Alarm		Combination of three conductors plus one neutral, one protective earth		Sub-distribution box



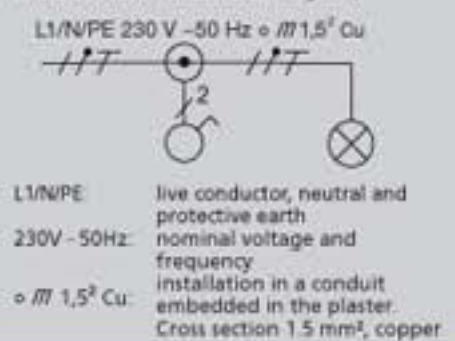
Circuit diagram (assembled representation)



Circuit diagram (exploded representation)



Installation diagram (for positioning of components, see assembled circuit diagram)



www.unitrain-i.com

www.lucas-nuelle.com

Lucas-Nülle GmbH
The education and training equipment company
Siemensstrasse 2
50170 Kerpen-Sindorf
Germany
Telephone: +49 2273 567-0

