

STUDY OF DIFFERENT LIGHTS WIRINGS



ref. QUICK-APLUS

ref. QUICK-A without frame and console

Set of modules (H-250mm) for studying the different types of wiring of lights. The modules are cabled using safety leads Ø4mm.

EDUCATIONAL OBJECTIVES

- Study of house wiring diagrams.
- Study and operation of a single lighting circuit.
- Study and operation of a double lighting circuit.
- Study and operation of a two-way circuit.
- Study and operation of a remote control switch circuit
- Study and operation of a timer circuit.
- Study and operation of a dusk switch circuit.
- Study and operation of an energy meter.

TEACHING RESOURCES STUDENT & TEACHER

Proposed Practical Works

- Creation of house lights wiring diagrams.
- Creation of different light wiring such as single, double, two-way, timer, remote control, dusk switch.
- Creation of energy meter wiring.
- Creation of reading of light power consumption.



Sockets on the back of the console for connecting the modules

Comprises

- 1 Module – Two pushbuttons
- 1 Module – Two-way switch
- 1 Module - Two single lighting switches
- 1 Module – Two double lighting switches
- 1 Module – Single phase energy meter 63A
- 1 Module – Circuit-breaker 1P+E 16A
- 1 Module – Residual current circuit-breaker 30mA
- 1 Module – Timer, coil 230VAC-50Hz
- 1 Module – Remote control switch, coil 230VAC-50Hz
- 1 Module – Dusk switch + photocell
- 1 Module – Analogue ammeter 2.5A and Analogue voltmeter 250VAC
- 4 Modules – Bulkhead lights 230VAC-40W
- 1 set of safety leads for carrying out the different practical works.
- 1 frame with wheels (H x W x D): 1610 x 940 x 500mm equipped with rack for cords (30 fingers)
- 1 single-phase power console:
 - 1 thermal magnetic circuit breaker (16A)
 - 1 Emergency stop push button with key
 - 1 Push button + LED indicator
 - 1 230V single-phase output on 4mm safety terminals
 - 2 230Vac sockets (2P + E) + 12 230Vac sockets (2P + E), at the back

Lights wirings - Autonomous sub-assemblies

On frame ref. SUP-AKR-6. Height 610mm – Width 590mm.

Each reference is delivered with a set of safety ropes to wire different modules.

General power supply with 230VAC 1.5m mains wires.



Study a double lighting circuit with switches

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 switch modules
- 2 lighting modules with windows, 60W-230VAC.

ref. **QUICK-AK11 with frame**

ref. **QUICK-AK11-N without frame**

Study a lighting circuit with a push-button and contactor

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 push-button modules.
- 1 contactor module, 230V.
- 2 lighting modules with windows, 60W-230VAC

ref. **QUICK-AK12 with frame**

ref. **QUICK-AK12-N without frame**



Study a lighting circuit with back-and-forth switches

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 back-and-forth switch modules.
- 2 lighting modules with windows, 60W-230VAC

ref. **QUICK-AK13 with frame**

ref. **QUICK-AK13-N without frame**

Study a lighting circuit with a timer-type staircase

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 push-button modules.
- 1 timer module, 230V, timer-type staircase.
- 1 lighting module with 1 window, 60W-230VAC.

ref. **QUICK-AK14 with frame**

ref. **QUICK-AK14-N without frame**





Study a lighting circuit with a dusk-to-dawn switch

- 1 230V power module on 4m terminals with an MT16A circuit breaker and viewing window.
- 1 switch module.
- 1 dusk-to-dawn switch, 230V, with a sensor.
- 1 lighting module with 1 window, 60W-230VAC.

ref. QUICK-AK15 with frame

ref. QUICK-AK15-N without frame



Study a two-roller shutter

- 1 230V power module on 4m terminals with an MT16A circuit breaker and viewing window.
- 2 switch modules for two-roller shutter control.
- 1 simulation module of two-roller shutter with elevate and descent viewing windows.

ref. QUICK-AK16 with frame

ref. QUICK-AK16-N without frame