

DESCRIPTION:

The 3 Channel Switchboard Controller provides monitoring and remote control of the luminaires powered by the cabinet.

It gathers data on the operating status of the connected circuits and transmits it wirelessly to the control center and be analyzed by the central system software.

OPERATION:

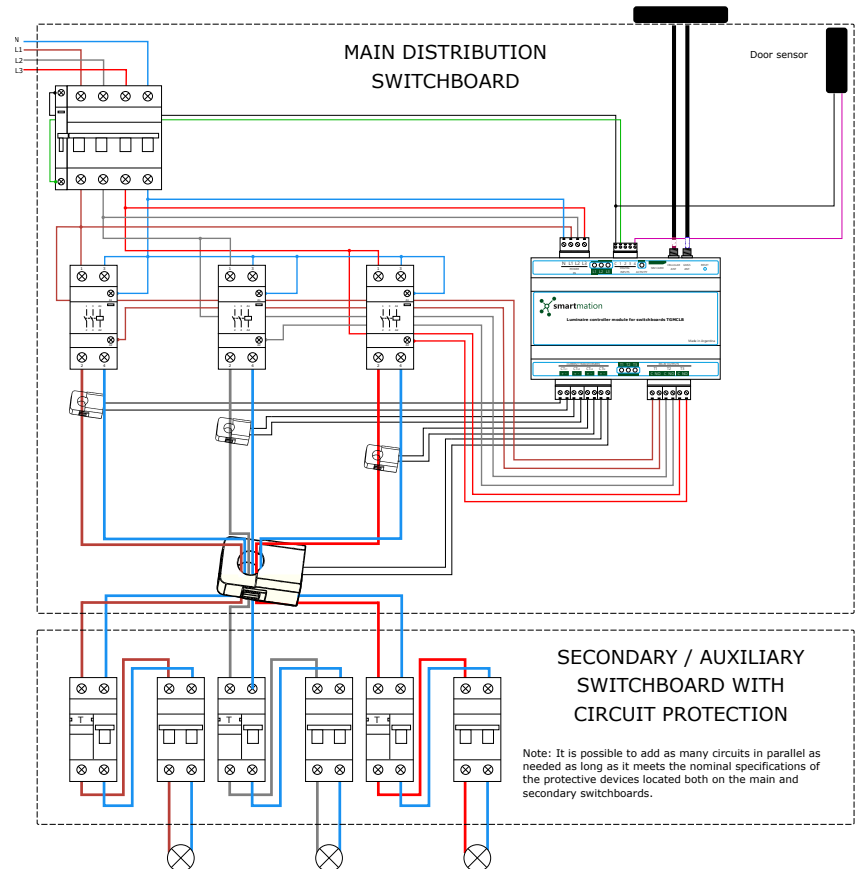
The switchboard controller manages the switching of the luminaires automatically based on its configurable astronomical clock.

The operating parameters and measurements of each controller are configured and reported to the central system.

ALARM DETECTION:

- Voltage too high / low.
- Current too high / low.
- Power consumption with load off.
- Controller offline.
- Power outage.
- Circuit breaker off.

WIRING DIAGRAM



Communications specifications:

- Cellular module 2G/CatM1/NB-IoT:
- Cat M1:
B1/B2/B3/B4/B5/B8/B12/B13/B14/
B18/B19/B20/B25/B26/B27/B28/B66/B85
- Cat NB2:
B1/B2/B3/B4/B5/B8/B12/B13/B18/
B19/B20/B25/B26/B28/B66/B71/B85
- GSM/EDGE: 850/900/1800/1900MHz

Electrical specifications:

- Power in:
Supply voltage: 100-380VAC 50 / 60Hz
- Outputs:
Relay outputs 5A / 250VAC (x3)
- Digital inputs:
Dry contact inputs (x4)

Functional specifications:

- Class 1 three-phase energy meter
- Split core external current sensors: avoid the need for intervene the original circuit during installation
- Relay outputs to control up to three contactors (one per phase)
- GPS-based geolocation and astronomical clock calendar
- Automatic phase selector for own powering: guarantees maximum availability even with up to two phases interrupted.
- Overvoltage protection against loss of neutral (disconnects the loads when the input voltage exceeds 270VAC)
- Raises alarms upon risk of electric shock
- Up to four digital dry contact inputs: allows you to configure both monitoring and triggering of an associated action
- Standard DIN rail mount cabinet with plug-in terminals to ease installation
- Integrated dome type cabinet mount cellular and GNSS outdoor antennas.