G&G Controls

G&G Controls Minimum specification for BMS panels

Enclosures

Schneider mild steel enclosure for indoor use, Schneider polyester enclosure for outdoor use

Minimum 10% space on the backplate and 10% spare terminals

Door interlocked with isolator on enclosures containing mains power

Magnetic light in each compartment with inbuilt switch

Wall mount as standard, over 100kg is floor standing

Power distribution

Power from isolator via distribution block mounted adjacent to the isolator

MCBs minimum 6kA breaking capacity

Control voltage

24VAC

Allow 15% extra capacity on current consumption for the transformer

Two transformers, one for BMS controllers (and extension modules), the other for everything else

30 cables max per door loom

All transformers and control circuits to be fed from L1

Wiring

Tri-rated cable, minimum 1mm^2

Ferrules/ring crimps on all cable ends

All non-mains cables to be individually marked at each end

3+N: brown, black, grey, blue

1+N: brown, blue

24vac: white, 0vac: blue

24vdc: violet, 0vdc: violet

BMS: pink

Live Side: Orange

Pilot LEDS

Power on: White

Enable: White

Running: Green

Fault/Trip: Red

Frost: Blue

Warning: Amber

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Trunking
Slotted trunking filled to maximum 70% of capacity
Row of trunking between din rail terminals and edge of panel

Lamps
All lamps to be LED with 22mm cutout and separate lamp test input

Terminals
Wago screwless terminals to accept cables of at least 2.5mm^2 with ferrules
Mains terminals separated from ultra low voltage/control terminals

Ancilleries
RCD socket mounted on back plate
Document holder fixed to back of door with drawings and test certificates

Labelling
Door labelling with traffolyte (or equivalent) labels in black writing on white background
Internal component labelling with self adhesive labels on the trunking lid and/or backplate

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