SMCB - Central System Conversions

Central power systems utilising converted mains luminaires offer economical emergency lighting, with no additional luminaires to purchase and install. Converted luminaires automatically change over to the central supply in the event of normal mains failure, operating one lamp at a reduced output.

A 230V AC/AC module is ideal for installations with narrow distribution luminaires or smaller applications using Menvier's new compact static inverter. Traditional static inverter systems operate all lamps at full power in an emergency luminaire.The 230V module operates only one lamp and at a significantly reduced output, eliminating excessive, wasted light and dramatically reducing the rating, size and cost of the static inverter system required.

- Monitors local unswitched mains supply
- New 230V AC/AC low BLF option for static inverters significantly reduces the load on the inverter
- Unobtrusive emergency lighting
- Simple single luminaire conversion
- Rapid conversion service available

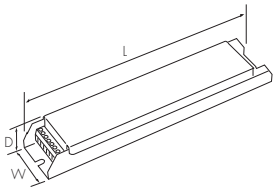
Materials

- Module case - galvanised steel
- Remote Enclosure - steel, white finish

Installation Notes

- Suitable for fitting integral to host luminaire, where electromagnetic test results permit
- Designed to convert a single luminaire only
- Requires unswitched mains supply
- Remote mounting box available (order separately)
- Modules should be sited within 300mm of luminaire when mounted remotely (maximum allowable is 1000mm)
- See selection table for ballast lumen factors. See page 566 for full design guide

Dimensions



Description	L(mm)	W(mm)	D(mm)	Fixing Ctr's (mm)
Modules 24/50/110V	216	40	45	205
Modules 230V	300	43	35	289
Remote Box	380	145	52	-

Catalogue Numbers

Lamp Rating	Cat No	Weight (kg)
System voltage 24V AC/DC	SMCB24	0.30
System voltage 50V AC/DC	SMCB50	0.30
System voltage 110V AC/DC	SMCB110	0.30
System voltage 230V AC/AC	SMCB230	0.30
Remote enclosure	FMENCA	0.60

Conversion Service

To ensure satisfactory operation, a full conversion service is offered by Cooper Lighting and Safety. This gives complete peace of mind that the conversion is carried out and certified to all required standards, providing:

- Total warranty of converted luminaire
- CE marking of converted luminaire. Note: It is a legal requirement to remove the existing and re-apply a new CE mark to the luminaire after it has been converted and compliance with CE requirements established
- Conversion in a facility that is BS EN ISO9001 approved

Specification

To specify state: Central system emergency conversion modules for fluorescent lamps, with low profile case, suitable for use with 24/50/110V AC/DC central battery systems/230V AC/AC static inverter systems, one module per luminaire, as Menvier SMCB range, part no. _____

Ballast Lumen factor Table

Lamp Type / Voltage	24V	50V	110V	230V AC
K FACTOR	0.65	0.70	0.70	0.95
S FACTOR	0.85	0.85	0.85	0.85
Compact Fluorescent				
16W 2D	0.45	0.65	0.65	0.32
28W 2D	0.28	0.40	0.40	0.28
38W 2D	0.23	0.33	0.33	0.19
9W TC	0.50	0.71	0.71	0.35
11 TC	0.49	0.70	0.70	0.34
13W TC	0.44	0.63	0.63	0.31
18W TC-D	0.25	0.37	0.37	0.25
18W TC-L	0.25	0.37	0.37	0.25
24W TC-L	0.28	0.40	0.40	0.28
36W TC-L	0.24	0.35	0.35	0.24
Linear Fluorescent				
18W T8	0.31	0.44	0.44	0.30
36W T8	0.22	0.33	0.33	0.23
58W T8	-	0.24	0.24	0.17
70W T8	-	0.18	0.18	0.13

Notes: 1. When performing photometric designs, the K and S lumen reduction factors should be applied.
2. Ballast Lumen factors for 230V AC/AC SMCB modules available on application. See page 566 for Design Guide