



Energy Division

Dorman Smith Metered Power & Lighting TP+N Distribution Boards

To suit current industry regulation requirements, Tyco Electronics has extended its Dorman Smith Loadlimiter 63 range to offer fully assembled metered power and lighting TP+N distribution boards. The stocked range provides an easy and flexible solution to comply with Part L2 regulations.

Assembled Range

To allow installers to meet demanding timescales, fourteen various arrangements are available covering both 125A and 250A options. All boards include incoming devices, current transformers, meters, meter protection with control wiring fitted and fully tested. (Outgoing devices should be ordered separately).

Both 125A and 250A options includes a choice of kWh or multi-function meter fitted with pulse outputs for connection to a compatible building management system (BMS).

The 125A range includes an arrangement with a single meter for requirements where incoming supply is to be metered elsewhere. Separation of power and lighting circuits allow for metering of lighting only at the final distribution stage.

Customised Builds

To fulfil the complex requirements of all projects, Tyco Electronics offers a service to build and deliver customised arrangements to match customer's specification on quick turn around.

Features

- Control wiring, CTs and meter protection included and fitted
- 14 combinations of power and lighting outgoing ways
- Vertical or horizontal arrangements
- 125A and 250A options
- Customised builds available on request
- Incoming devices included and fitted
- Choice of kWh or multi-function meters

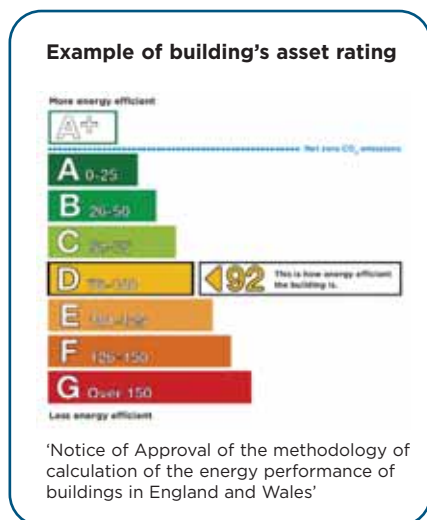
Benefits

- Easy compliance with current regulations
- Fully tested
- No on-site control wiring
- Quick lead times
- Meter configured for CT ratio

 **Tyco Electronics**

Our commitment. Your advantage.

Key Drivers Influencing Energy Performance



Legislation forms the principal driver to improving energy performance in non-domestic buildings and reducing carbon emissions. The need to provide sub metering of end users (lighting, heating, etc.) is now paramount to identifying potential energy savings.

Part L2 Regulations Requirements

- To account for at least 90% of the estimated annual energy consumption in buildings and install sub-meters with a floor area of greater than 500m²
- Buildings with a floor area greater than 1000m² should provide automatic meter reading and data collection
- Additional metering would be required for plant items with input powers greater than or equal to those shown below

Energy Performance Building Directive

- All buildings or parts of buildings built, sold or rented require an energy performance certificate (EPC). This will give the property and energy efficiency rating on a scale of A-G
- Display Energy Certificates (DEC) are required for public buildings with a floor area of > 1000m²

Plant item	Related input power (kW)
Boiler installations comprising one or more boilers or CHP plant feeding a common distribution circuit	50
Chiller installations comprising one or more units that feed a common distribution circuit	20
Electric humidifiers	10
Motor control centres providing power to fans and pumps	10
Final electrical distribution boards	50

Loadlimiter 63 Assembled Boards Range



125A - Horizontal Arrangement with Two Multi-function Meters

- Two 125A switch disconnectors fitted:
 - One for Isolation of whole arrangement
 - One for isolation of lighting circuits only
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Multi-function meter with pulse output for connection to a compatible BMS system

No of power TP ways	No of TP lighting ways	Dimensions H x W x D	Cat. no.
6	6	811 x 968 x 160	DBXC06NAH06CA
12	12	971 x 968 x 160	DBXC12NAH12CA



125A - Vertical Arrangement with One Multi-function Meter (Lighting Only)

- Two 125A switch disconnectors fitted:
 - One for Isolation of whole arrangement
 - One for isolation of lighting circuits only
- One meter display for readings of lighting consumption only
- All power and control wiring fully tested and fitted
- Multi-function meter with pulse output for connection to a compatible BMS system

No of power TP ways	No of TP lighting ways	Dimensions H x W x D	Cat. no.
8	6	1452 x 484 x 160	DBXC08NNV06CA
12	8	1612 x 484 x 160	DBXC12NNV08CA

125A - Vertical Arrangement with Two Meters (kWh or Multi-function)

- Two 125A switch disconnectors fitted:
One for isolation of whole arrangement
One for isolation of lighting circuits only
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Both meters have a pulse output for connection to a compatible BMS system

Meter type	No of power TP ways	No of TP lighting ways	Dimensions H x W x D	Cat. no.
Multi-function	6	4	1345 x 484 x 160	DBXC06NAV04CA
Multi-function	8	6	1452 x 484 x 160	DBXC08NAV06CA
Multi-function	12	8	1612 x 484 x 160	DBXC12NAV08CA
kWh	8	6	1452 x 484 x 160	DBXC08NJV06CJ
kWh	12	8	1612 x 484 x 160	DBXC12NJV08CJ



250A - Vertical Arrangement with Two Meters (kWh or Multi-function)

- One 250A switch disconnector fitted providing isolation for whole arrangement
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Both kWh and multi-function meters have a pulse output for connection to a compatible BMS system

Meter type	No of power TP ways	No of TP lighting ways	Dimensions H x W x D	Cat. no.
Multi-function	8	6	1570 x 484 x 160	DBXE08NAV06NA
Multi-function	12	8	1730 x 484 x 160	DBXE12NAV08NA
kWh	8	6	1570 x 484 x 160	DBXE08NJV06NJ
kWh	12	8	1730 x 484 x 160	DBXE12NJV08NJ



250A - Horizontal Arrangement with Two Multi-function Meters

- One 250A switch disconnector fitted providing isolation for whole arrangement
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Both kWh and multi-function meters have a pulse output for connection to a compatible BMS system

No of power TP ways	No of TP lighting ways	Dimensions H x W x D	Cat. no.
8	8	972 x 968 x 160	DBXE08NAH08NA



Customised Builds

To satisfy requirements not covered by stocked range, a service is available to tailor arrangements to particular project specifications as indicated below.

- Different incoming options (e.g. RCCB, four-pole switch disconnectors)
- Numerous combination of outgoing ways for power and lighting circuits (e.g. 20/12 way split)
- Further isolation options
- Different metering options (Modbus™, Profibus™)
- Choice of arrangement

Please contact your local sales engineer, (see website for details <http://www.dormansmithswitchgear.com/postcode.htm>), or contact our sales office for a price and availability.

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Energy Division - economical solutions for the electrical power industry: cable accessories, connectors & fittings, electrical equipment, instruments, lighting controls, insulators & insulation enhancement and surge arresters.

Tyco Electronics UK Ltd
Energy Division
Freebournes Road
Witham, Essex CM8 3AH

Phone: +44 (0)870 870 7500
Fax: +44 (0)870 240 5289
Email: electrical@tycoelectronics.com

www.dormansmithswitchgear.com
<http://energy.tycoelectronics.com>

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