EUROPA
Sentinel

Data Sheet
EDS2011-001

This document must be retained for future reference.

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

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DO NOT USE POWER TOOLS ON THESE PRODUCTS

Sentinel Range Consumer Units

Metal-Clad Single-Phase Boards IP20 with Type 2 SPD

Description

The distribution equipment and circuit protection range of metal consumer units by Europa Components are designed to fully comply with the requirements of BS EN 61439-3 and the requirements of the18th Edition of BS 7671 IET Wiring Regulations. With multiple configurations available, the range offers flexible versatile solutions for installations.

Features & Benefits

- Clearly labelled earth and neutral bars positioned at the top of the enclosure
- Din rail position allows a generous wiring space
- Top, bottom and side knockouts for cable entries- multiple entries for consumer unit tails on all sides
- Retain-screws for lid included, prevent screws from being lost during installation
- Busbar with cover and fingertip protection provided
- Type 2 SPD included
- Multiple configurations from main-switched boards to SPD-protected fully loaded circuits available to suit a wide range of applications

Part Number	Description
SLCU8M-SPD	8 Way | 4 usable ways
SLCU10M-SPD	10 Way | 6 usable ways
SLCU12M-SPD	12 Way | 8 usable ways
SLCU14M-SPD	14 Way | 10 usable ways
SLCU20M-SPD	20 Way | 16 usable ways

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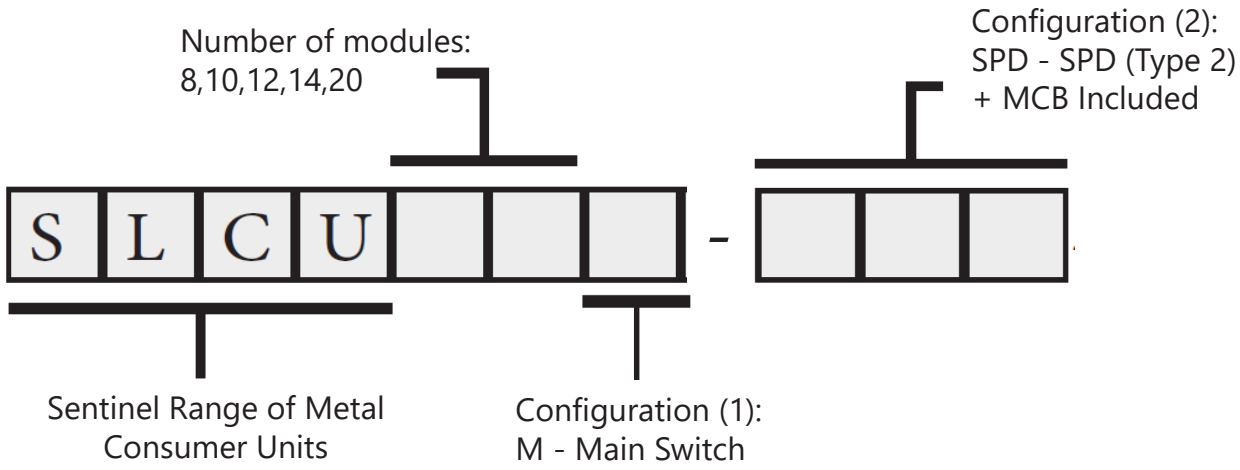
Unit Dimensions

Part Number	W	W1	H	H1
SLCU8M-SPD	197	132		
SLCU10M-SPD	233	168		
SLCU12M-SPD	279	203	235	165
SLCU14M-SPD	305	240		
SLCU20M-SPD	431	366		

Part Number Breakdown



Notes
This unit must be installed by a skilled or instructed person in accordance with the current BS 7671 IET Wiring Regulations
The product must be tested by skilled persons competent for verification after installation and before being put to service
Please ensure these instructions are available to the end user for future reference
Total load not to exceed the rating of the incoming main switch or RCCB
The total sum of the individual MCB ratings may exceed this value where there is an appropriate diversity factor on the installation (see diversity factor table below)
It is important to ensure that all connections, including factory-made, must be checked for the correct installation and tightness, prior to the commissioning of the electrical installation
This product is only suitable for indoor installation

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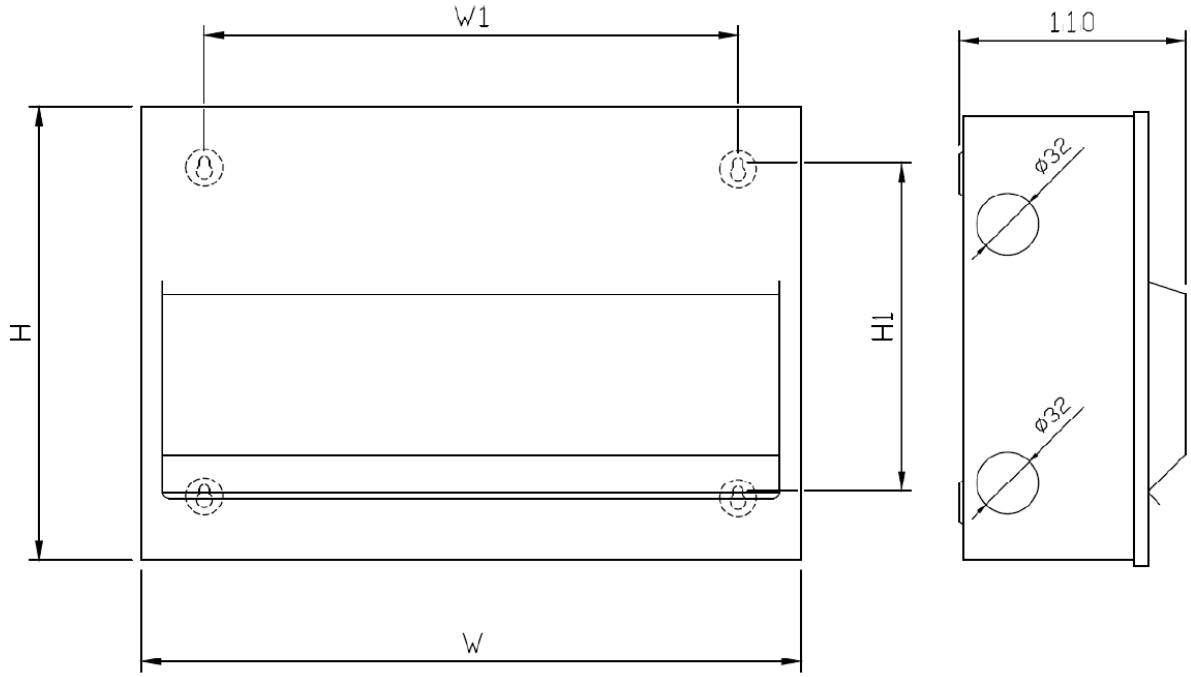
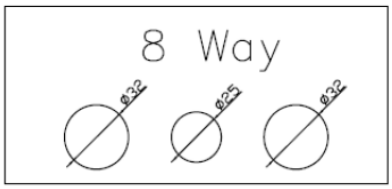
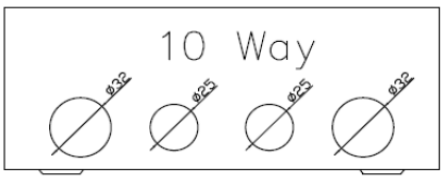
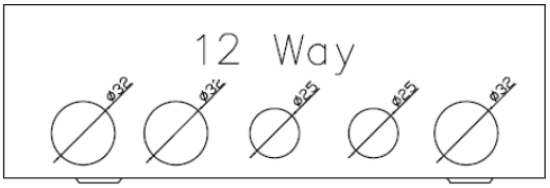
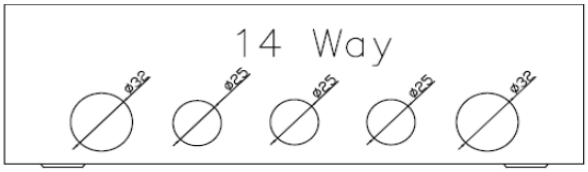


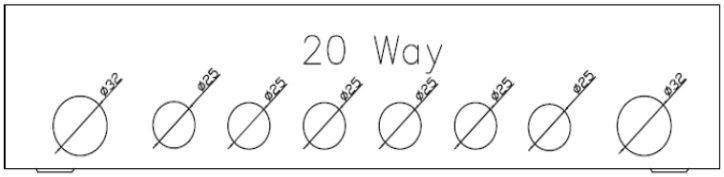
Notes:
Knockout placements are symmetrical between top and bottom / left and right sides.











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Unit Characteristics

Rated and operational voltage (Un / Ue)	230V AC at 50Hz
Rated impulse withstand voltage (Uimp)	4kV
Rated current of Assembly (InA)	100A
Rated frequency (fn)	50Hz
Degree of Protection	IP20
Mechanical Impact Protection	IK05
Note: Rated diversity factor (RDF) only applies to continuously and simultaneously loaded circuits.	
Type A Distribution Board for use by ordinary persons.	

SPD Specification

BS / EN Standard	BS EN 61643-11
Type	Type 2
Earthing System	TT/TN
System Voltage	230V
Max. Continuous Operation AC Voltage	275V (L-N) | 255V (N-PE)
Nominal Discharge Current I_n	20kA
Maximum Discharge Current I_{max}	40kA
Voltage Protection Level U_p	1.5kV (L-N) | 1.2kV
Status Indicator	Green (Normal State) | Red (Failure State)
Mounting	35mm DIN Rail
Terminal Capacity	2.5mm² (L/N) | 4mm² (PE)
Operating Temperature	~40 to ~80 °C
Degree of Protection	IP20

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Standards

Device	Standard
Consumer Unit	BS EN 61439-3
Main Switch	BS EN 60947-3
RCCB	BS EN 61008-1
MCB	BS EN 60898-1
RCBO	BS EN 61009-1

Cable and Torque Settings

Device	Max Cable Capacity (mm2)	Recommended Tightening Torque (Nm)
Main Switch / RCCBs	35	2.5
MCBs	16	2.0
1 Pole RCBO	16	In 2.0 | Out 1.2
Earth and Neutral Terminals	25	2.0

Diversity Factors
as per BS EN 61439-3

Number of Outgoing Ways	Assumed loading factor
2 & 3	0.8
4 & 5	0.7
6 to 9	0.6
10+	0.5