

**PDL** WP Series  
Weather Protected Accessories.

**PDL** S Series  
Weatherproof Isolators.

Superiority in function,  
performance and aesthetics  
Industry proven  
weather protected accessories



a brand of  
**Schneider**  
Electric

**PDL**

[www.pdl.co.nz](http://www.pdl.co.nz)



# Protected switch for functional control now up to 32Amps!



PDL introduces the new 32Amp IP56 Switch Isolator, the WSW321.

Suitable for applications such as air-conditioning, pool equipment, outdoor signage, commercial lighting plus many others.









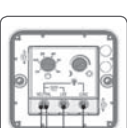
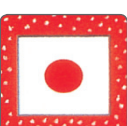
A solid construction using the latest technology materials with superior UV protection, impact strength, water/dust resistant, and chemical resistance built to last.



**PDL** WP Series  
Weather Protected Accessories.



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# FEATURES



## SAFETY IN ACTION

All switches can be padlocked on or off as standard for control of power supply. Mechanical protection from physical damage is built into all products.



## MODULAR DESIGN

Based upon 2 frame sizes, the WP series has been designed as a family of products, allowing interchangeability. This means the junction/utility boxes can be mounted and, with only a cover change, can be turned into a switch or switched socket outlet, or reverse.



## IP RATING

WP Series switches are rated to IP56. WP Series sockets are rated to IP53. WP channelled red gaskets provide high-performance protection in all situations for peace of mind. S Series isolators are rated to IP66.



## EASY INSTALLATION

WP Series products are designed with the installer in mind. All products are supplied with base and an accessory pack of terminals and conduit connection adaptors.



## BUILT TO LAST

WP Series uses latest technology materials with superior UV protection, impact strength, and additional chemical resistance when compared with polycarbonate.

## FUNCTIONALITY

Daylight switch with selectable timer – WDL10 Photoelectric sensor provides adjustable Lux level from 20 to 100 Lux, and selectable time with 6 adjustments up to 8 hours. Flexible installation adjustments to suit various applications. Easy wiring complete with deep base.



WDL10 - DAYLIGHT SWITCH



### SHALLOW BASE

- Modern shallow base design – 20mm deep
- Rear cable entry only – 20mm standard entry
- Rear knock-out to 32mm
- Conduit box mounting centres provided
- Multiple fixing positions – for easy fixing away from rear entry point
- Drain hole options provided



### DEEP BASE

- Single or double conduit options for surface wiring
- Rear cable entry plug 25mm
- 38mm depth for increased wiring room
- Five plain 25mm conduit entries
- Drain hole options provided
- Multiple mounting points, away from rear entry and conduit entry points
- 90° mounting options – on single base only



### SOCKETS

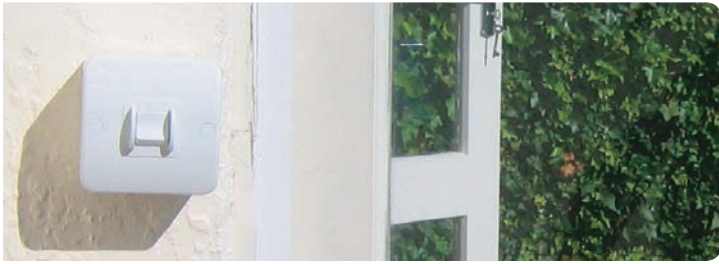
- Socket face angled for ease of use and weather protection
- Logical socket orientation for end user
- Internal phase wiring between switch and socket provided as standard
- Phillips/slotted terminal screws
- Large terminals that are centrally located creating more wiring room for ease of installation
- Removable bridging wires for ease of wiring 2 or more circuits
- Earth – clearly marked for easy identification (terminated one side only)
- Internal phase wiring from switch to socket



### SWITCHES

- 20A switch as standard
- 16AX fluorescent rating standard
- M60 motor rating as standard
- Stainless steel mounting screws
- Padlockable and mechanically protected
- New 32A switch, single pole, 1 way.





## SWITCHES to IP56

IP56 switches comply with standards IEC60669-1, AS/NZS3947-3 and AS60529 (IP56).

Ratings: 250VAC, 50Hz, 20A resistive and inductive, 16AX fluorescent M60.

250VAC, 50Hz, 32A resistive, 20AX fluorescent, M180, AC23A 3kW-21A.

Terminals accommodate: 4 x 1.5mm<sup>2</sup> cables each or 2 x 2.5mm<sup>2</sup> cables each (20A).

2 x 6mm<sup>2</sup> cables each (32A).



### WSW201

#### Single switch 20A

2 way, single pole

250V a.c., 50Hz

IP56

Suits WE1 or WE1S enclosures.



### WSW202

#### Double switch 20A

2 way, single pole

250V a.c., 50Hz

IP56

Suits WE1 or WE1S enclosures.



### WSW321

#### **NEW** Single switch 32A

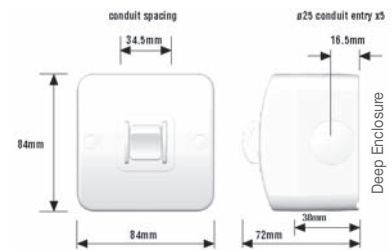
1 way, single pole, isolation switch

250V a.c., 50Hz

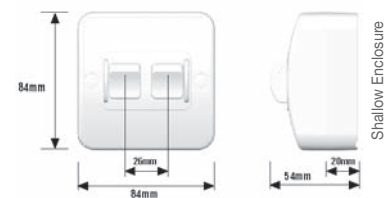
IP56

Suits WE1 enclosure.

### Dimensions Including Enclosures



WSW201 (pic), WSW202 and WSW321 with WE1



WSW201 and WSW202 (pic) with WE1S





## SWITCHED SOCKETS to IP53

IP53 switched sockets comply with AS/NZS3100, AS/NZS3112 and AS60529 (IP53).

For additional safety, WP Series sockets are all fitted with safety shutter coverings behind all pin apertures.

Angled socket face for IP protection incorporates water shed feature.



**WSO310**

*Single socket 10A*

230V/240V a.c., 50Hz

IP53

Suits WE1 or WE1S enclosures.



**WSO310/2**

*Double socket 10A*

230V/240V a.c., 50Hz

IP53

Suits WE2 or WE2S enclosures.



**WSO310X**

*Single socket 10A with extra switch (20A)*

230V/240V a.c., 50Hz

IP53

Suits WE2 or WE2S enclosures.



**WSO315**

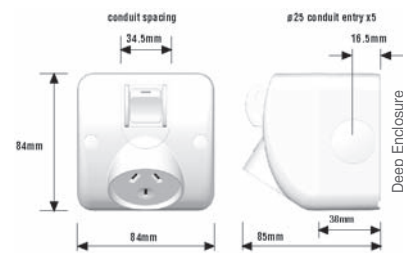
*Single socket 15A*

230V/240V a.c., 50Hz

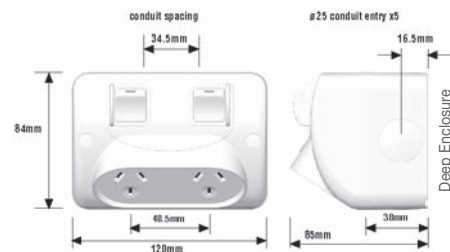
IP53

Suits WE1 or WE1S enclosures.

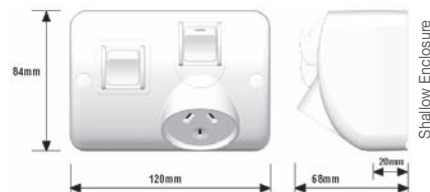
### Dimensions Including Enclosures



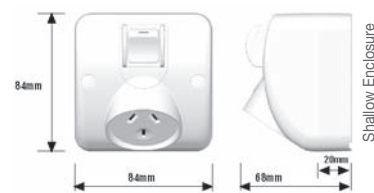
WSO310 (pic) and WSO315 with WE1



WSO310/2 (pic) and WSO310X with WE2



WSO310/2 and WSO310X (pic) with WE2S



WSO310 and WSO315 with WE1S



WSO310/2 & WSW201





## ENCLOSURES (BASES) DEEP AND SHALLOW

Size 1 and Size 2 enclosures (bases) for surface mounting the PDL WP Series, deep (38mm) and shallow (20mm) options in both sizes, with excellent cable entry and mounting point options.

The deep (or standard) base design provides increased wiring room and installation options, and the modern shallow base design is aesthetically superior to suit lower profile applications.



**WE1**  
*Size 1, deep (standard) enclosure – 38mm deep*  
 5 x 25mm surface mount – cable entry  
 1 x 25mm – rear cable entry  
 90° mounting options  
 Supplied complete with accessory pack.



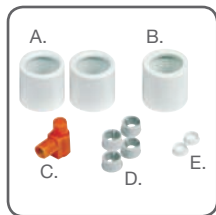
**WE2**  
*Size 2, deep (standard) enclosure – 38mm deep*  
 5 x 25mm surface mount – cable entry  
 1 x 25mm – rear cable entry  
 Supplied complete with accessory pack.



**WE1S**  
*Size 1, shallow enclosure – 20mm deep*  
 1 x 20mm – rear cable entry  
 1 x 32mm – rear knockout  
 Supplied complete with accessory pack.



**WE2S**  
*Size 2, shallow enclosure – 20mm deep*  
 1 x 20mm – rear cable entry  
 1 x 32mm – rear knockout  
 Supplied complete with accessory pack.



### ENCLOSURE ACCESSORY PACKS

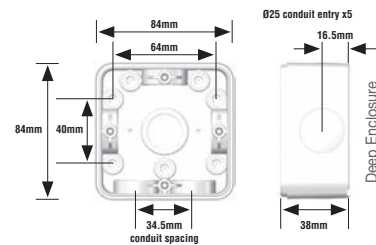
#### Deep Enclosures

- A. 25-20mm plain reducer
- B. 25-20mm threaded reducer
- C. 501 terminal
- D. Mounting point bungs
- E. Flush caps

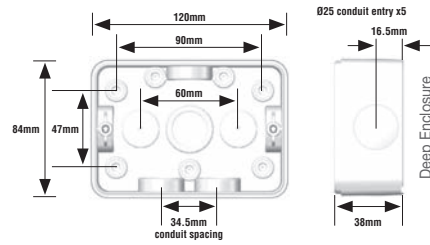
#### Shallow Enclosures

- C. 501 terminal
- D. Mounting point bungs
- E. Flush caps

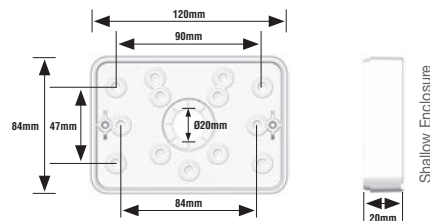
### Dimensions



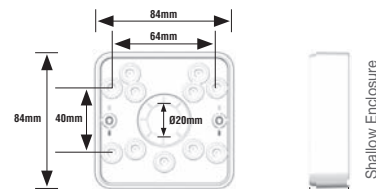
WE1



WE2



WE2S



WE1S










## A CHANGE FOR THE FUTURE

Mid-2007 will see a change in the way these products are sold, with benefits all round:

### THE OLD STYLE

-  Switch and socket covers sold with enclosures (bases)
-  Individual cartons with an extra outer carton
-  Limited flexibility when you want to mix and match
-  Junction Boxes and Daylight Switch are not changing

### THE NEW STYLE

-  Switch and socket covers sold separately from enclosures
-  Products individually bagged and barcoded and packed into a SINGLE carton
-  Removes excess packaging
-  Adopts the familiar way to purchase, the same as the PDL 56 Series
-  Less items to worry about and increased flexibility to mix and match

**Note:** Official notification of the changes will be given to your electrical wholesaler outlet in advance.



*from this ..... to this!*



## NEW DAYLIGHT SWITCH to IP56

IP56 Selectable Photo Electric Cell which complies with AS60529, AS/NZS3100:2002 and CISPR15:2002 with a Bicolour LED for switching identification.

### WDL10

Daylight switch with installer selectable timer 10A

Control Feature: Timer and Lux adjustment

Voltage: 230 - 240VAC, 50Hz

Switch Lux Level: 20 to 100 Lux

IP Rating: IP56

Timer: 6 position (ON - Dusk to Dawn - 2H - 4H - 6H - 8H, ON - load permanently ON D-D - load ON at dusk and load OFF at dawn 2H, 4H, 6H, 8H - load ON for the present time after dusk)

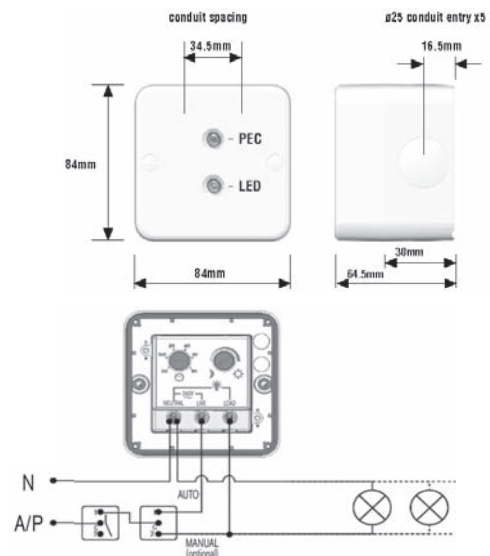
Photoelectric Sensor: Preset to switch ON or OFF at approx. 50 Lux (calibration dial)

Amperage: 10A resistive  
2400W (10A) incandescent  
2000W (8A) halogen  
1200W (6A) inductive and fluorescent

Bicolour LED: Green – power available  
Red – daylight switch/timer operating

Wiring: 3 terminals (phase, neutral, load) at 6mm<sup>2</sup> max. 4x1.5mm<sup>2</sup>

Operating Temp.: -10°C to 45°C



Aesthetics and functionality are second to none. There is no other product available today that is so simple to use, set up and test.

User selectable timer, with the ability to control the delay OFF or permanently ON functions at the turn of the dial.

Lux level pre-set, but able to be adjusted from 20 to 100 Lux.

Suitable for outdoor lighting, pool timers, water features, entry and security applications, building management and community control environments.



## DEEP BASE UTILITY/JUNCTION BOXES *to* IP56



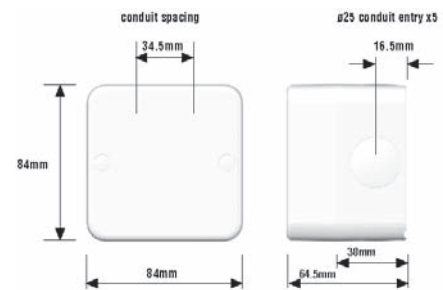
### WJ1

#### *Single junction box*

IP56

Facilities for the installation of pushbutton stations.

Supplied complete with accessory pack.



WJ1



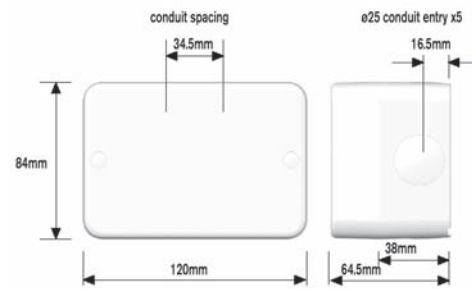
### WJ2

#### *Double junction box*

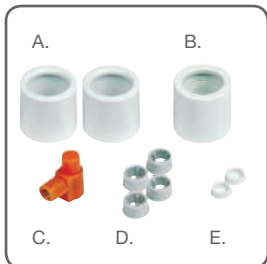
IP56

Facilities for the installation of pushbutton stations.

Supplied complete with accessory pack.



WJ2



### SWITCH ACCESSORY PACK

A. 25-20mm plain reducer

B. 25-20mm threaded reducer

C. 501 terminal

D. Mounting point bungs

E. Flush caps





**PDL** S Series  
Weatherproof Isolators.

## WEATHERPROOF ISOLATOR SWITCHES *to* IP66

PDL's S Series range of enclosed main switches has been developed to produce a fully international, all-purpose, isolating switch to meet all installation applications for all markets where PDL electrical accessories are distributed.

The range has many features and benefits including the facility for padlocking in both the ON and OFF positions. They are made of high impact-resistant polycarbonate and are dust and water protected to meet the exacting requirements of International Standard IP66. Components are corrosion resistant through the use of quality brass and stainless steel terminal fittings.

### FEATURES

- Facility for padlocking in the OFF position provided as standard, padlocking in the ON position possible by field drilling plastic web as instructed.
- Use of high impact-resistant materials for mechanical protection and synthetic gasket seals ensure environmental resistance to dust and water IP66 rating.
- Simple 2-cover screw fitting method for ease of fit-off.
- Ample room for wiring within the enclosure.
- Rotary operation provides ease of use even with gloved hand.
- Enclosure thread configuration – 2 x 25mm metric conduit entries in each end.
- Supplied with 2 x 25-20mm reducers for optional installation to 20mm conduit.
- Provision for tamperproof wire sealing provided.



### Cable Entry:

2 x 25mm back entry cut-outs and  
2 x 25mm threaded entries each.

### Maximum Cable Size:

- 20A and 32A accept max 16mm<sup>2</sup>
- 40A and 63A accept max 25mm<sup>2</sup>

# S SERIES

## WEATHERPROOF ISOLATOR SWITCHES to IP66

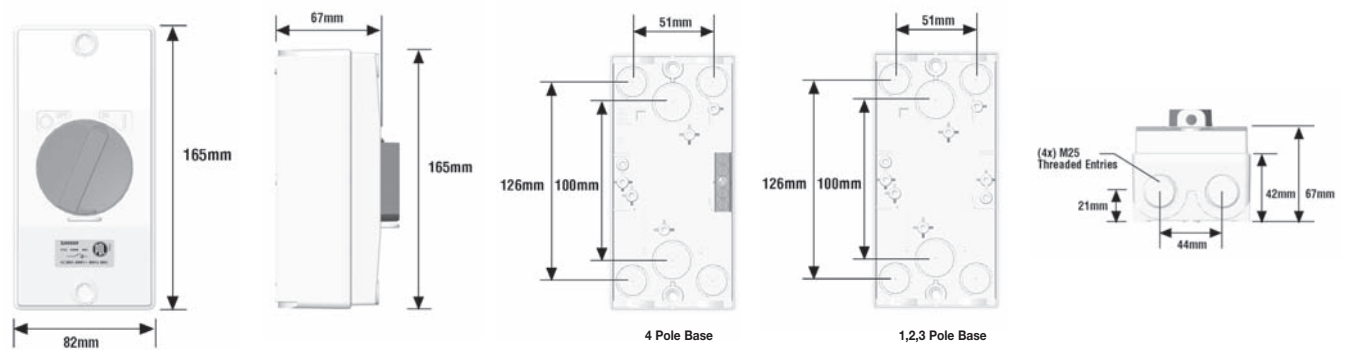
		S120EM	S132EM	S220EM	S232EM	S320EM	S332EM	S340EM	S363EM	NEW S432EM	NEW S463EM
Operation Voltage <i>U<sub>e</sub></i> (~50Hz)	V	240	240	415	415	415	415	415	415	415	415
Insulation Voltage <i>U<sub>i</sub></i> (~50Hz)	V	250	250	440	440	440	440	440	440	440	440
Impulse Withstand Voltage <i>U<sub>imp</sub></i> (~50Hz)	kV	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	1.5	2.5
Rated Thermal Current Enclosed <i>I<sub>the</sub></i>	A	20	32	20	32	20	32	40	63	32	63
Description		1 pole	1 pole	2 pole	2 pole	3 pole	3 pole	3 pole	3 pole	4 pole	4 pole
Cable Cross Sections Solid or Standard <i>Min</i>	mm <sup>2</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
<i>Max</i>	mm <sup>2</sup>	16	16	16	16	16	16	25	25	16	25
Terminal Screw		M5	M5	M5	M5	M5	M5	M6	M6	M5	M6
IEC 60947 AC21A	V A	240 20	240 32	415 20	415 32	415 20	415 32	415 40	415 63	415 32	415 63
AC23A	V A	240 21	240 21	415 21	415 21	415 21	415 21	415 35	415 45	415 21	415 45
Short-time Withstand Current 1 Sec	A	240	384	240	384	240	384	480	756	384	756
Rated Short Circuit Making Capacity	KAp	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.5	1
AS3133 Resistive Inductive	A AX	20 20	32 32	20 20	32 32	20 20	32 32	40 40	63 63	32 32	63 63
M-Rating		M125	M140	M125	M140	M125	M140	M160	M180	M140	M180

### Note:

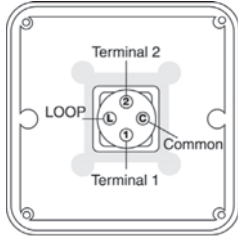
AC21A: Switch of AC resistive loads including moderate overloads.

AC23A: Switch of motor loads or other highly inductive loads.

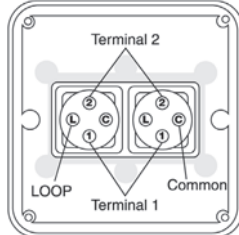
All switches supplied complete with base and switch accessory pack.



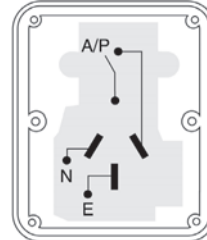
# WIRING DIAGRAMS



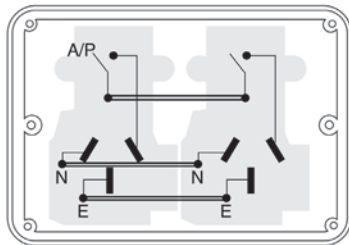
WSW201 Wiring Diagram



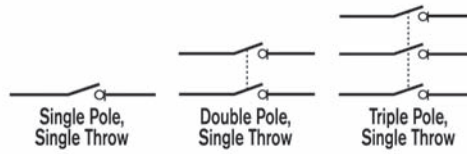
WSW202 Wiring Diagram



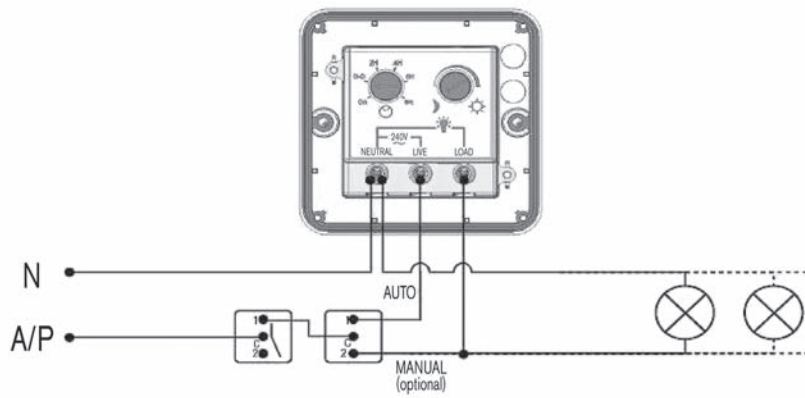
WSO310 Wiring Diagram



WSO310/2 Wiring Diagram





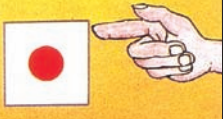










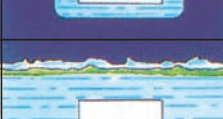
S Series Wiring Diagram



WDL10 Wiring Diagram



# IP DESIGNATIONS

PROTECTION AGAINST SOLIDS			PROTECTION AGAINST LIQUIDS		
	TEST	PROTECTION		TEST	PROTECTION
X	No test applied.	No specific protection.	X	No test applied.	No specific protection.
0	No test applied.	Inherent degree of protection.	0	No test applied.	Inherent degree of protection.
1		Protected against solid objects larger than 50mm (e.g. accidental contact with hand).	1		Protected against drops of water falling vertically.
2		Protected against solid objects larger than 12mm (e.g. contact with finger).	2		Protected against drops of water falling at up to 15° from the vertical.
3		Protected against solid objects larger than 2.5mm (e.g. tools and wires).	3		Protected against spraying water at up to 60° from the vertical.
4		Protected against solid objects larger than 1mm (e.g. fine tools and wires).	4		Protected against splashing water from all directions.
5		Protected against quantities of dust that could interfere with satisfactory operation.	5		Protected against jets of water from all directions.
6		Completely protected against dust.	6		Protected against jets of water of similar force to heavy seas.
			7		Protected against the effects of immersion.
			8		Protected against the effects of submersion.

Defined by IEC 529  
DIN 40050 CEI 70-1

To Australian Standards AS 1939 - 1991  
'Classification of degrees of protection provided by enclosures for electrical equipment'.

Defined by IEC 529



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