

Power supply system for work spaces

# Service pole 50

raw material colour **ALUMINIUM** 

Aluminium

Grey

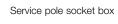
# For supply of work spaces from the ceiling in open-plan rooms

- Slender structures providing the minimum necessary diameter for wiring, easily adaptable to the space distribution and to any relocation.
- Minimalist and modern design.
- Solid aluminium structure and rigid fixing system.

# Raw material



Service pole

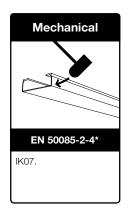


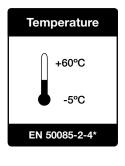


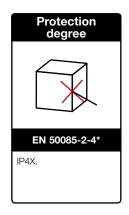


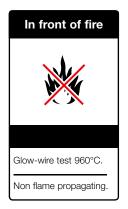
## Technical characteristics











 $<sup>^{\</sup>star}$  BS EN 50085-2-4 is the UK implementation of EN 50085-2-4.





Colour

Aluminium

Anodized RAL 9006



**RAL 7035** 

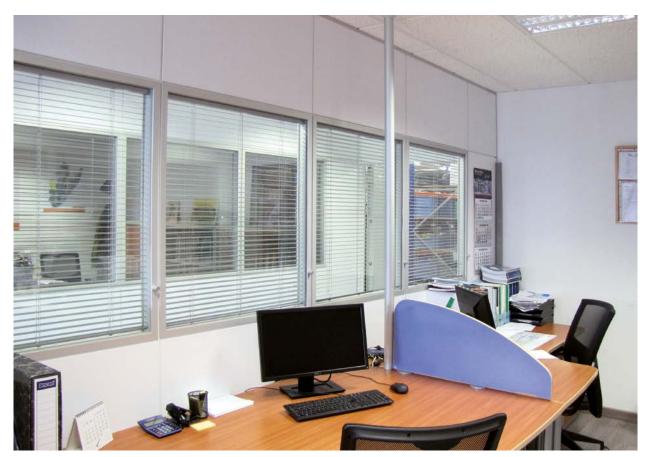
# Quality marks



Conformity declaration

See updated technical information of each part number on www.unex.net





Work spaces: office



Work spaces: office



Work spaces: office







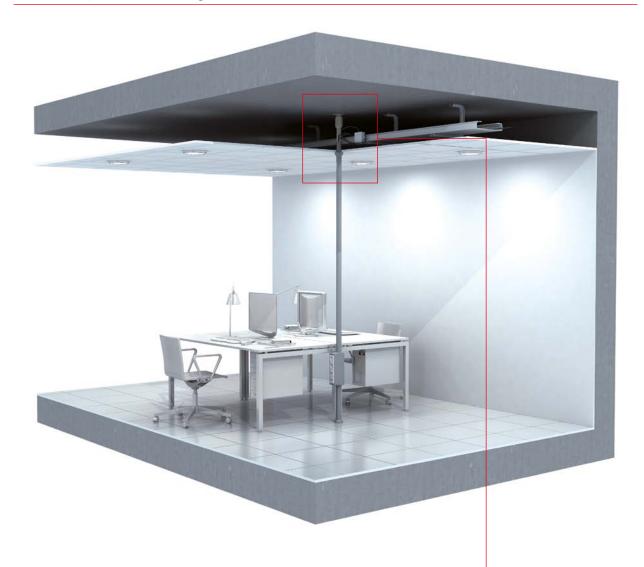
School Health care



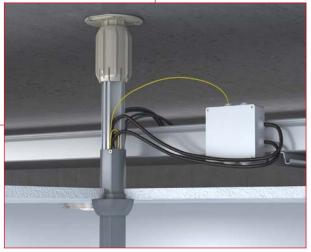
Health care

# Supply options

From suspended ceiling







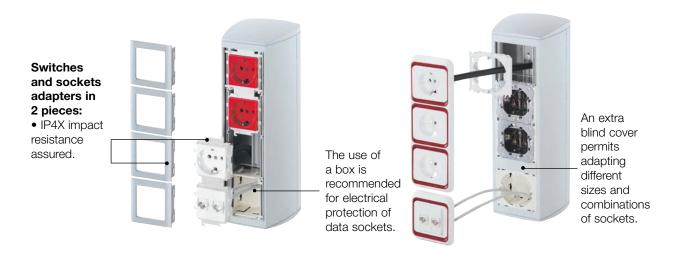


# From the ceiling

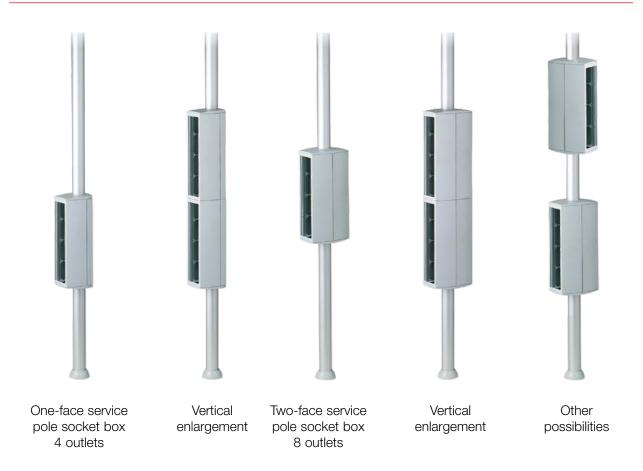


# Mounting of switches and sockets

Easy installation of switches and sockets



# A system adapted to each work space



Socket boxes can be extended according to the requirements, resulting in a flexible installation, with easy maintenance and adaptable to future modifications in the composition and location of work spaces. Maximum recommended configuration: 2 double modules.



# Flexibility to combine a variety of switches and sockets

## Electrical outlets

#### Universal CEE-7 (1)



- Niessen\* Olas, Arco, Tacto, Zenit and Stylo.
- BJC\*
- Jung\*.
- Simon\* 31, 75, 88, 82.
- Mosaic\*.
- Valena\*.
- Bticino\*.
- Eunea\*.
- Berker\*.
- Gewiss\*.

#### Industrial socket box



- Mennekes\*
- ABL\*.
- Simon\*.

#### Modular



- Niessen Zenit\*.
- Simon\* 27.
- Simon Connect\* K45 and compatible.
- Mosaic\*.
- Eunea Unica\*.
- BJC Sol\*.

#### Modular double



- Mosaic\*.
- Simon Connect\* K45 "linkable".
- Eunea Unica\*.
- Simon CIMA 500\*.

#### Modular triple



- Simon Connect\* K45 "linkable".
- Mosaic\*.

#### Universal



- Niessen\* Zenit
- Bticino\*.
- Unica-Allegro\* (3 modules).
- Gewiss

#### **DIN** (Bipolar)



- MCB's (Miniature circuit breakers).
- RCD's (Residual current devices).

## Data connectors

#### Flat plate 1 RJ45



Compatible with:

- Systimax solutions.
- Universal type Keystone.

#### Flat plate 2 RJ45



Compatible with:

- Systimax solutions.
- Universal type Keystone.

#### Angled plate 2 RJ45



Compatible with:

Universal type Keystone.

# Mounting of 5 modular outlets in a socket box 80 mm



1 triple adapter + 2 single adapters



- 1 triple adapter + 1 double adapter

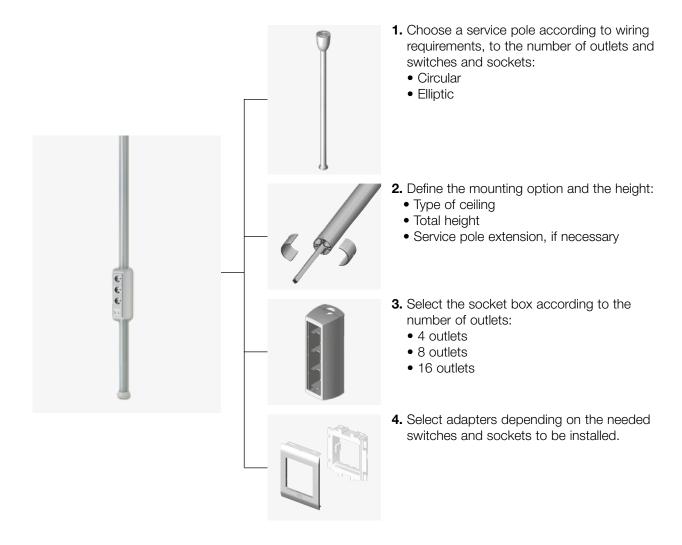
**Reduced stock of fittings.** Same system for mounting switches and sockets for: Trunking 93, Modular box 85, Service pole 50, Service post 50 and Furniture supply 51.

(1) It is not possible to mount 4 single universal frames. Admits combinations of 1 + 3, 2 + 2 and 4 elements.

<sup>\*</sup> These brands belong to third parties; they are not related to Unex aparellaje eléctrico, S.L.

# Selecting a service pole in 4 steps:

Simple process in selecting a service pole.



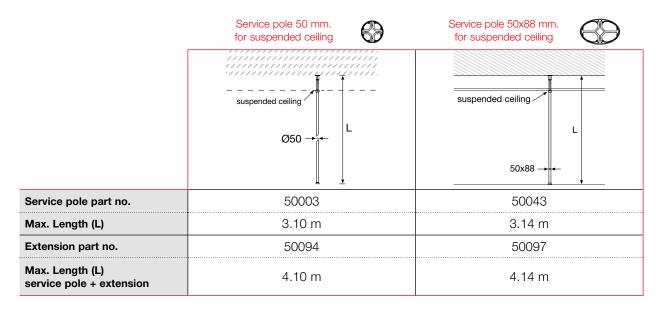
# 1. Choose a service pole according to wiring requirements: different cross-sections

Service pole cross-section (4 compartments each pole)		Data cables (capacity in each compartment)	Power cables (capacity in each compartment)		
Service pole 50 mm.		O 4 cables UTP 4 pairs.  Maximum Ø5.1 mm.	(A) 1 cable U1000 R2V 3x2.5 mm².  Maximum Ø13 mm.		
Service pole 50x88 mm.		<ul> <li>8 cables STP 4 pairs. Maximum Ø7.4 mm. or</li> <li>14 cables UTP 4 pairs. Maximum Ø5.1 mm.</li> </ul>	<ul> <li>4 cables U1000 R2V 3x2.5 mm². Maximum Ø10 mm. or</li> <li>2 cables U1000 R2V 3x2.5 mm². Maximum Ø13 mm.</li> </ul>		



# 2. Define the mounting option and the height

Determine whether the mounting is from ceiling or suspended ceiling, and measure the total height in order to add, if necessary, a service pole extension.



# 3. Select the socket box according to the number of outlets

		Socket box 4 outlets		Socket box 4+4 So outlets			t box 8 lets	Socket box 8+8 outlets	
			+		A		+		
Outlets width (mm)	A	65	80	65	80	65	80	65	80
		50123	50124	50123 + 50123	50124 + 50124	50223	50224	50223 + 50223	50224 + 50224
<b>6</b> 9			50144		50144 + 50144		50244		50244 + 50244

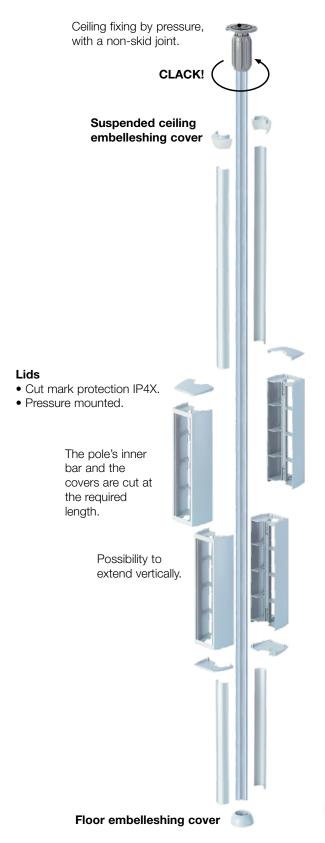
# 4. Select adapters according to switches and sockets (see pages 188-189)







# Easy and comfortable mounting



## Service pole extension (1 m)



To reach maximum heights of: 4.10 m.

Pressure mounted no special tools.

#### Service pole coupler



Covers the junction between covers providing a nice finishing.

#### **Cable retainers**



Facilitate wiring and mounting of covers.

#### Inner bar



Can be cut at the necessary measure.



**Packaging**Service pole's pieces and socket box lay in mounting position.



# Service pole 50 in aluminium

	Service pole sizes (mm)	50 mm.	50x88 mm.	
	(Aluminium) RAL 9006			
	Suspended ceiling service pole Maximum length = 3.10 m part no. 50003 Maximum length = 3.14 m part no. 50043 To install with a suspended ceiling	50003	50043	
6/2	Service pole extension L = 1 m For supplementary extension of the service pole	50094	50097	

# Service pole socket boxes in U24X

	Service pole sizes (mm)	50	mm.	50x88 mm.		
	Grey RAL 7035					
	Switches and sockets width (mm)	65	80	80		
		45 x 45 65 x 4	80 + D + D + D + D + D + D + D + D + D +	10NV CEE 7 + + + + + + + + + + + + + + + + + + +		
+ 💝	Service pole socket box 4 outlets	50123	50124	50144		
+ 🛇	Service pole socket box 8 outlets	50223	50224	50244		
	To mount switches and sockets	See table of adapters, according to the size of the cover. (See pages 188-189).				

See next page 🔱





# Adapters for the service pole's socket boxes 65 mm. width

(MIL-SA)	Socket box 4 outlets	Socket box 4+4 outlets	Socket box 8 outlets	Socket box 8+8 outlets
RAL 9010 (Part no. 93xxx-2)  Aluminium  RAL 9006 (Part no. 93xxx-03)		+		
(Fait 110. 93xxx-03)	50123	50123 + 50123	50223	50223 + 50223
Single plots D I45				

(D. I				
(Part no. 93xxx-03)	50123	50123 + 50123	50223	50223 + 50223
Single plate RJ45	**			
	Flat 1RJ45	<b>93749-2</b> (1)	937	<b>49-03</b> (1)
	Flat 2RJ45	<b>93751-2</b> (1)	937	<b>51-03</b> (1)
	Angled 2RJ45	93753-2 (2)	937	<b>53-03</b> (2)
Single adapter 💮 ,				
	Niessen Zenit*	<b>93635-2</b> (3)	936	<b>35-03</b> (3)
M	BJC* Sol	93663-2	936	63-03
	Simon* 27	93621-2	93621-03	
	Simon Connect* K45	<b>93608-2</b> (4)	<b>93608-03</b> (4)	
	Mosaic* and compatible	93608-2	936	08-03
	Eunea Unica*	93653-2	93653-03	
Double adapter +.				
	Simon Connect* K45	<b>93613-2</b> (4)	936	<b>13-03</b> (4)
	Mosaic* and compatible	93613-2	936	13-03
	Eunea Unica*	93656-2	936	56-03
7	Simon CIMA 500*	93640-2	936	40-03
Adapter DIN [ (5)				
		93648-2	936	48-03
Socket boxes (6)		Single adapter	Double	adapter
^				

(1) Compatible with RJ45 Systimax solutions and Universal type Keystone (AMP, Krone, Nexans, Jetlan, Belden, Brand-Rex and OPENETICS). For specific types or brands, please contact us.

93713

- (2) Compatible with RJ45 Universal type Keystone (AMP, Krone, Nexans, Jetlan, Belden, Brand-Rex and OPENETICS). For specific types or brands, please contact us.
- (3) The adapters for Niessen Zenit outlets are designed for horizontal mounting. In vertical mounting cases, outlets will rotate 90° degrees from their original
- (4) Most of the switches and sockets of K type are compatible with this adapter. However, there are some part numbers (for example KB076, KB76, K103A, 2u. KA76, 2u. K302 + K115, etc.) that can only be mounted on the double plate 93613-2/93613-03 in the central area, placing blind lids on
- (5) For electrical outlets DIN, the box 93718 is necessary to fix the outlet to the service pole.
- (6) The use of the box is necessary to assure the separation of circuits.
- \*These brands belong to third parties; they are not related to Unex aparellaje eléctrico, S.L.

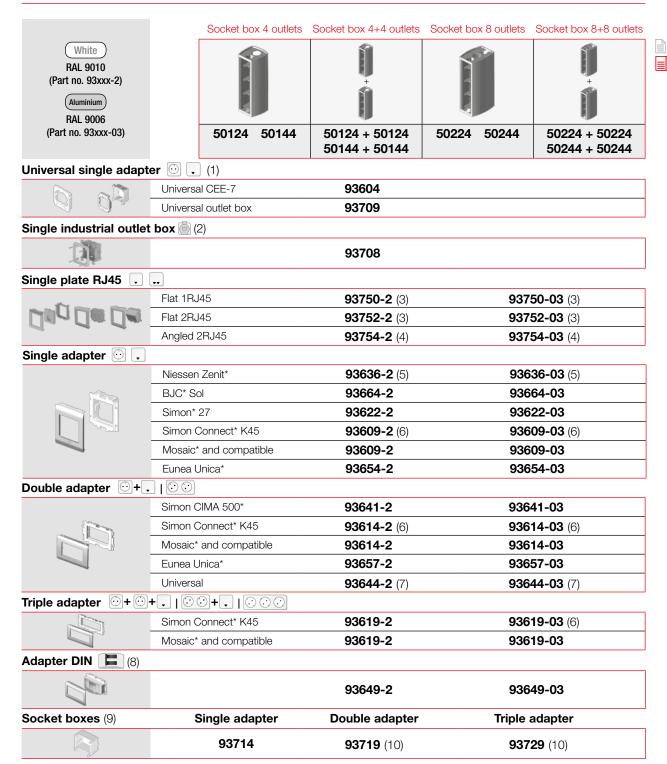
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93718





# Adapters for the service pole's socket boxes 80 mm. width

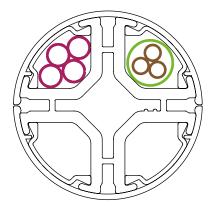


- (1) Frames shall be supplied by the socket manufacturer. We recommend frames with straight corners.
- (2) Box for industrial outlets, compatible with some outlets from Mennekes brand and others. Can be installed only 3 outlets per module. Please contact us for details.
- (3) Compatible with RJ45 Systimax solutions and Universal type Keystone (AMP, Krone, Nexans, Jetlan, Belden, Brand-Rex and OPENETICS). For specific types or brands, please contact us.
- (4) Compatible with RJ45 Universal type Keystone (AMP, Krone, Nexans, Jetlan, Belden, Brand-Rex and OPENETICS). For specific types or brands, please contact us.
- (5) The adapters for Niessen Zenit outlets are designed for horizontal mounting. In vertical mounting cases, outlets will rotate 90° degrees from their original position.
- (6) Most of the switches and sockets of K type are compatible with this adapter. However, there are some part numbers (for example KB076, KB76, K130A, 2u. KA76, 2u. K302 + K115, etc.) that can only be mounted on the double plate 93614-2 or on the triple plate 93619-2 in the central area, placing blind lids on the sides.
- (7) 1, 2 or 3 outlets of 25 mm. module can be installed.
- (8) For electrical outlets DIN, the box 93719 is necessary to fix the outlet to the service pole.
- (9) The use of the box is necessary to assure the separation of circuits.
- (10) Contains a divider part no. 93720 to separate circuits. It can also be sold individually.
- \*These brands belong to third parties; they are not related to Unex aparellaje eléctrico, S.L.



# Useful cross-sections for wiring

Service pole 50 mm.

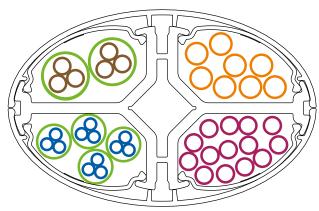


## Useful cross-section by compartment = 177 mm<sup>2</sup>

## Data cable:

- 4 pcs. UTP 4 pairs. Maximum Ø5.1 mm. **Power cable:**
- 6 1 p. 0.6/1kV RV-K 3G2.5. Maximum Ø13 mm.

# Service pole 50x88 mm.



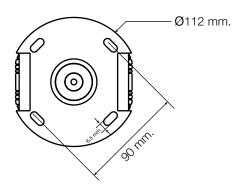
## Useful cross-section by compartment = 558 mm<sup>2</sup>

## Data cables:

- 8 pcs. cable STP 4 pairs. Maximum Ø7.4 mm. 14 pcs. cable UTP 4 pairs. Maximum Ø5.1 mm.
  - Power cables:
- **&** 4 pcs. 0.6/1kV RV-3G2.5. Maximum Ø10 mm.
- ⊕ 2 pcs. 0.6/1kV RV-3G2.5. Maximum Ø13 mm.

Note: The cables outer diameter changes from one manufacturer to another.

# Sizes for fixing of service poles to suspended ceiling



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