TRIDONIC

SIDEREA connector Accessories

ACU Z18 Set

Zhaga Book 18 Ed. 3 receptacle

Product description

- Set consisting of receptacle, lock washer and mounting nut (ACU Z18 REP 4PIN)
- Designed for street lighting control
- Compliant with Zhaga Book 18 Ed. 3
- Optional IP66 with sealing cap (ACU Z18 CAP IP66)
- UL UV-f1 rated for outdoor use
- IK09 high impact resistant

Housing properties

- Casing receptacle: PBT
- Type of protection IP20

Interfaces

• Supplies Zhaga Book 18 Ed. 3 contact system



Standards, page 3



ACU Z18 REP 4PIN



ACU Z18 CAP IP66



ACU Z18 REP 4PIN + ACU Z18 CAP IP66

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Accessories

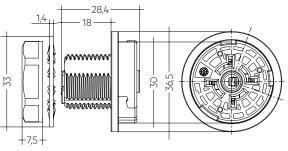
CEROHS

ACU Z18 Set

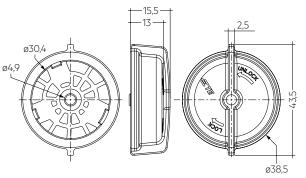
Zhaga Book 18 Ed. 3 receptacle

Technical data

Rated voltage	250 V	
Mains frequency	50 / 60 Hz	
Max. rated current	1.5 A	
Mounting hole	acc. to Zhaga Book 18 Ed. 3	
Type of installation	Zhaga Book 18 Ed. 3 socket	
Ambient temperature ta	-40 +90 °C	
Dimensions Ø x H	ø36.5 x 27.4 mm	
Housing material receptacle	PBT	
UV resistance	f1	
Type of protection ^①	IP20	
mpact protection rating ≤ IK09		



ACU Z18 REP 4PIN



ACU Z18 CAP IP66

Ordering data

Туре	Article number	Packaging bag	Weight per pc.
ACU Z18 REP 4PIN	28003209	100 pc(s).	0.008 kg
ACU Z18 CAP IP66	28003208	100 pc(s).	0.020 kg

 $^{\textcircled{1}}$ With attached ACU Z18 CAP IP66 will be achieved.

SIDEREA connector Accessories

1. Standards

UL 94V-0 UL UV-f1 UL 94V-2 (locking nut) EN 61984:2009

2. Common

This connector system is typically used in street light applications, as well as area lighting and IoT network applications.

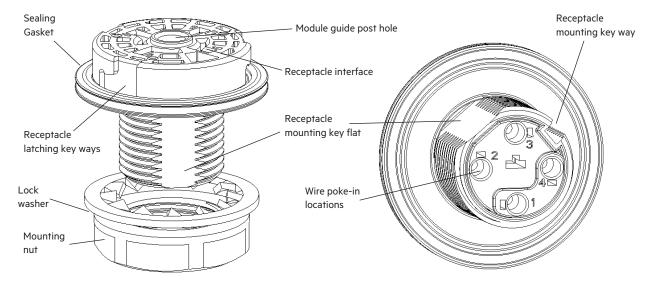
The receptacle is supplied with a 4 position contact system. All contacts are being pre-installed in the receptacle.

The receptacle contacts are wire poke-in style termination contacts.

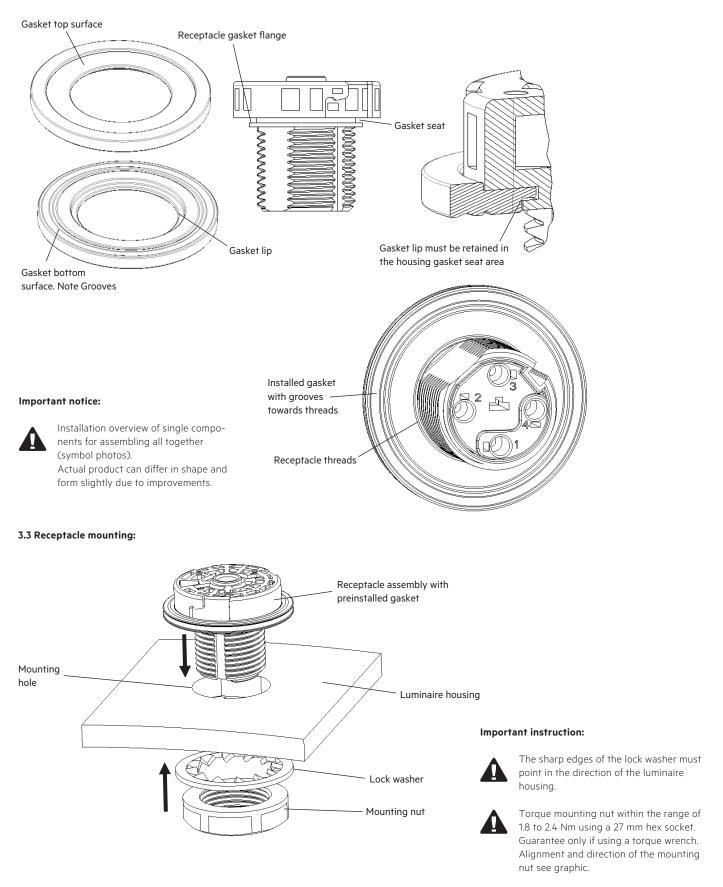
The cap is not supplied with the base assembly, but available separately (ACU Z18 CAP IP66, article number: 28003208). It is the responsibility of the customer to provide and install the light or sensor control electronics.

3. Installation

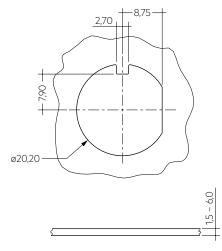
3.1 Receptacle:



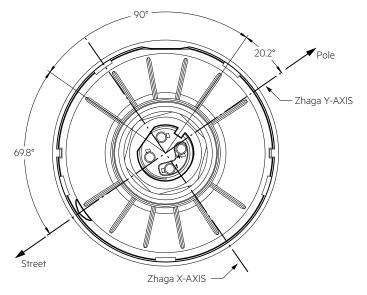
3.2 Gasket varification:



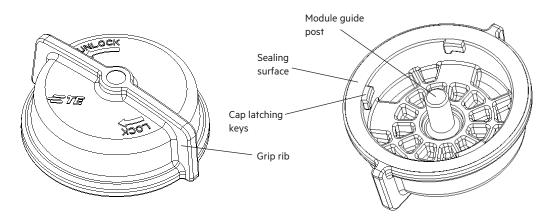
3.4 Mounting hole:



Zhaga Book 18 Ed. 3 axis description:

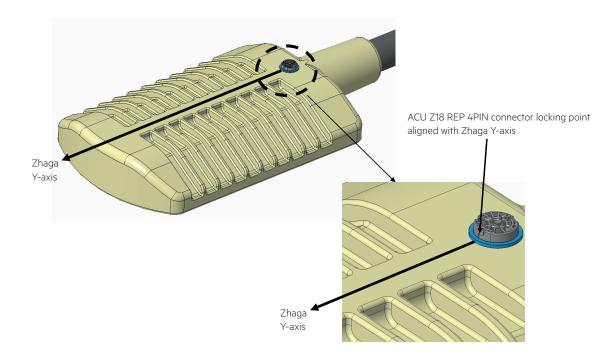


3.5 Cap:

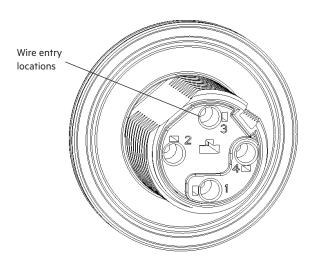


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3.6 Lighting fixture with ACU Z18 REP 4PIN connector:



3.7 Wire connection receptacle:



Pin number	Function
1	+24 V power supply
2	Negative pole for DALI / shared ground for 24 V power supply
3	Positive pole for DALI
4	Not connected
	this refers to Zhaga Book 18 Ed. 3 standard

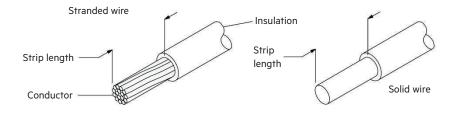
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3.8 Wire type and cross section:

The receptacle assembly will accept 16 – 20 AWG solid and

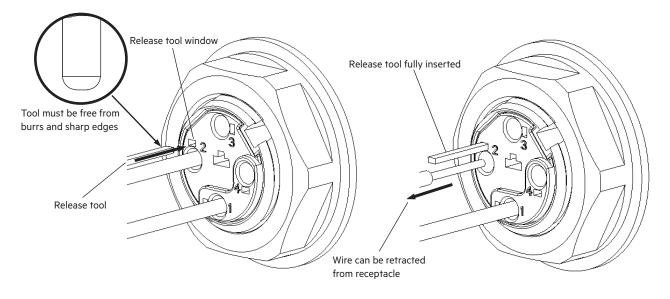
18 – 20 AWG stranded tin-dipped copper wire only.

The table in Figure below provides wire selection for the poke-in connectors.



Recommended wire						
Wire size	Wire type	Insulation diameter	Strip length			
16 AWG	Solid	ø 2.95 max. ø 1.90 min.	11.0 ±1.0			
18 AWG	Solid					
	Stranded (tin-dipped)					
20 AWG	Solid					
	Stranded (tin-dipped)					

3.9 Wire release:

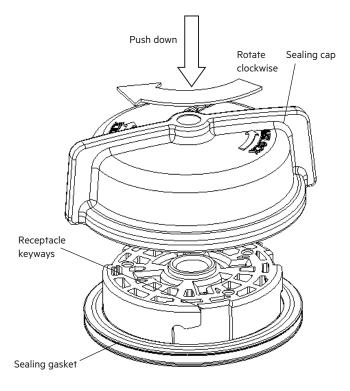


3.10 Cap release:

Align the sealing cap over the mounted receptacle. Based on polarizing features on each, the sealing cap can only be installed in one position. Lightly rotate the sealing cap until you feel the alignment keys and the blades align to the proper location. After alignment, push downward until the sealing cap is bottomed on the receptacles mating face.

Then complete mating by rotating sealing cap with downward pressure while twisting in a clockwise direction. The sealing cap will lock into position with an audible 'click'.

To un-mate, gently push down and reverse the process.



3.11 Commissioning and humidity:

When using the ACU Z18 CAP, make sure that the contact connections are dry during following installation.

Each time the connector (ACU Z18 REP 4PIN) is assembled or disassembled using an ACU Z18 CAP / communication module / sensor, the connector (ACU Z18 REP 4PIN) must be checked again for moisture damage. The use of the ACU Z18 REP 4PIN without the ACU Z18 CAP / communication module / sensor is not permitted.

4. Miscellaneous

4.1 Additional information

Additional technical information at <u>www.tridonic.com</u> \rightarrow Technical Data

Guarantee conditions at <u>www.tridonic.com</u> \rightarrow Services

Lifetime declarations are informative and represent no warranty claim. No warranty if device was opened.