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Descriptions :

The full plastic explosion-proof plug and sockets can be used in the explosive gas atmospheres where the locations of local power supply control and electrical installation and mobile machinery place often need to be moved and transformed.

The flexible shutter spring that has a lot of contact surface can guarantee the small contact resistance and low temperature rise meanwhile the force of inserting in and pulling out can be reduced minimally which ensure the normal functions and permanent self-cleaning effect of the plug and socket device is designed at the joint of insert sleeve in the socket of the plug and socket device due to the contact resistance between the plug and socket is changed greatly and the electrical transport properties can be effected directly when the plug and socket device is affected by the surrounding environment (such as temperature, dust, corrosion, etc.). The exclusive interlock device is equipped with the plug and socket device. The switch is not turned on if it is not rotated and the plug can not be pulled out when the switch is turned on after the plug is inserted into the socket, which the non-live action is realized.

The protective covers are equipped on both plug and socket, which ensure the reliability of the protective degree.

Therefore, the plug and socket device can be used under the extreme conditions.

- IECEx, ATEX International certification.
- Self-cleaning inserting sleeve, low transmission resistance.
- Protective covers ensure high degree of protection.
- Small force of inserting and pulling.

Zone 1 and zone 2 Zone 21 and zone 22



• Product confluence:



CZ0552 Full plastic explosion-proof mobile power branch connection socket box



CZ0551 Explosion-proof combined power socket boxes



CZ0551 Full plastic Explosion-proof combined power socket boxes



- CZ0251-16A/2P, 3P, 4P, 5P
Plug, Wall type socket, Coupler type socket, Panel type socket
- CZ0252-32A/4P, 5P
Plug, Wall type socket, Coupler type socket, Panel type socket
- CZ0253-63A/4P, 5P
Plug, Wall type socket
- CZ0254-125A/4P, 5P
Plug, Wall type socket



CZ0555/8 Explosion-proof plug with transformer



CZ0555/7 Explosion-proof socket with transformer



CZ0551 Explosion-proof combined power socket boxes

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• Diagram:



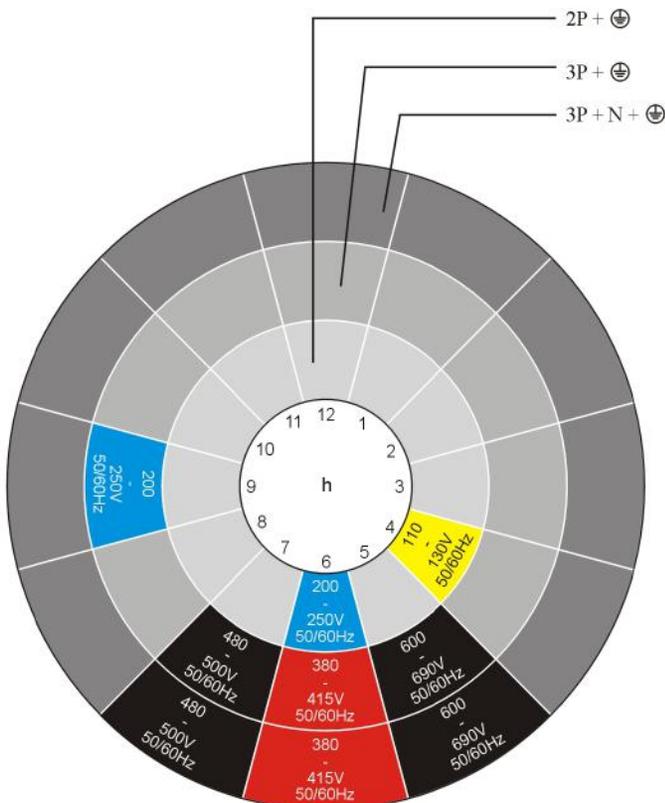
Explosion-proof plugs and sockets have the feature of self-cleaning. An elastic shutter type spring casing is mounted in the inserting sleeve of the socket, which ensure low contact resistance and low temperature rise while reducing the force of inserting and pulling.

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Inserting sleeve

Shutter type spring casing

• Clock position and colour of explosion-proof plugs and sockets:



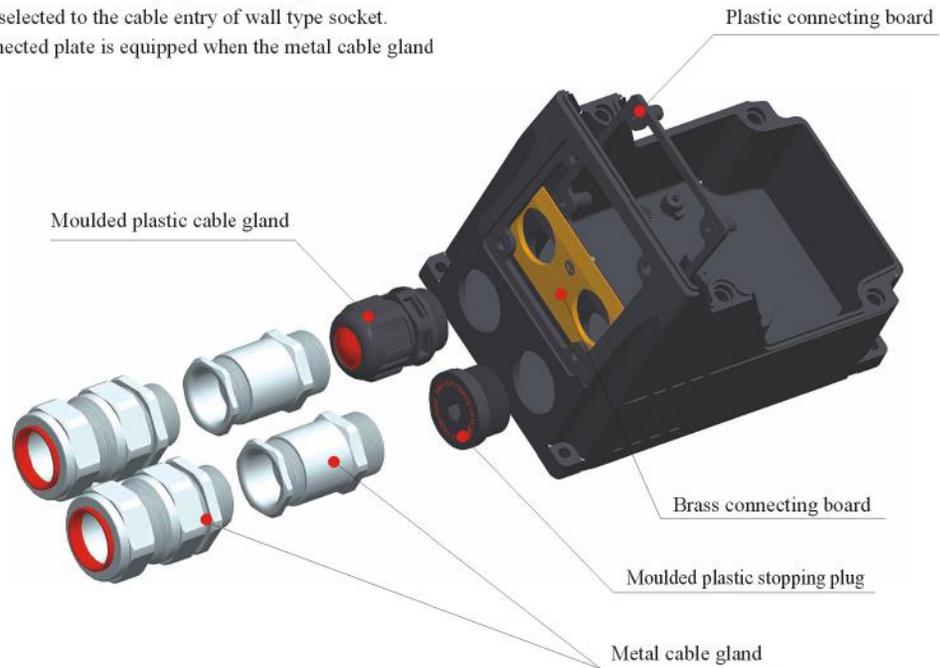
Sockets and plugs for industry are designed to conform to the international standard IEC60309, CEE publication, "Standard Requirements of sockets and plugs for industry" and GB/T11918-2001 "Couplers of plugs and sockets for Industry" part 1: General Requirements.

When selecting plugs and sockets in the present range of standard for manufacturing, the circular socket and plug should be selected of clock and colour mis-inserting proof according to different voltage, current and number of pole.



• Diagram:

The plastic connected board is equipped when the plastic moulded cable gland is selected to the cable entry of wall type socket.
The brass connected plate is equipped when the metal cable gland is selected.



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• The mutual exchange of explosion-proof and weather-proof plug and socket is as following

Explosion-proof socket

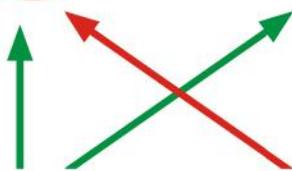
Weather-proof socket



It can be inserted



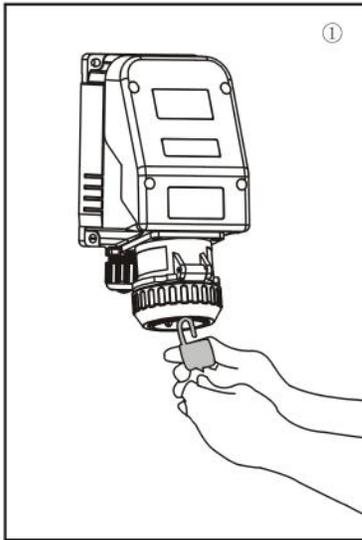
It can't be inserted



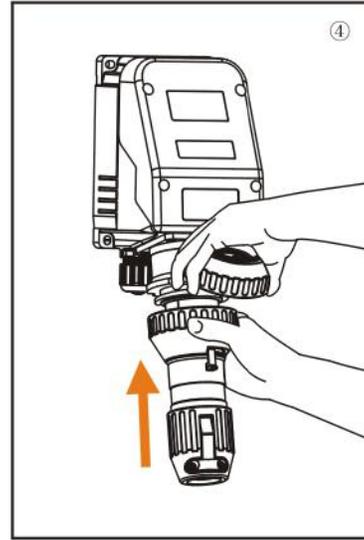
Explosion-proof plug

Weather-proof plug

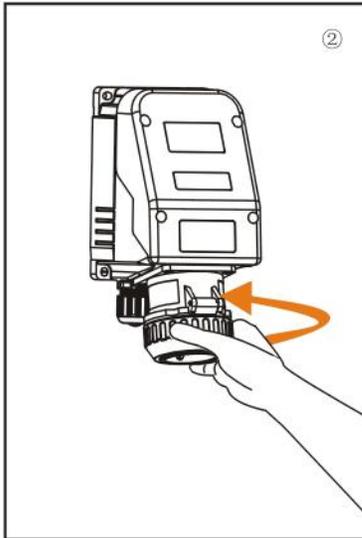
Note: The explosion-proof plug can be inserted into the weather-proof socket but the weather-proof plug can't be inserted into the explosion-proof socket to use.

• CZ0251、CZ0252 Operation:


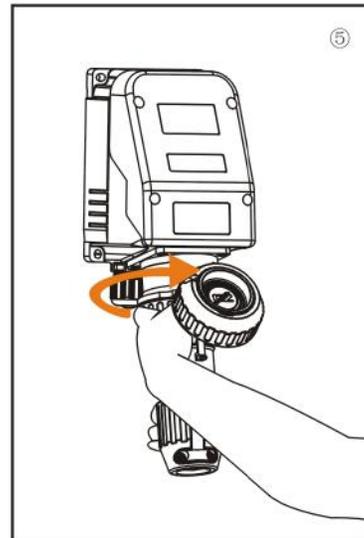
◀ The protective cover of the explosion-proof wall type sockets are fitted with openings for padlocks.



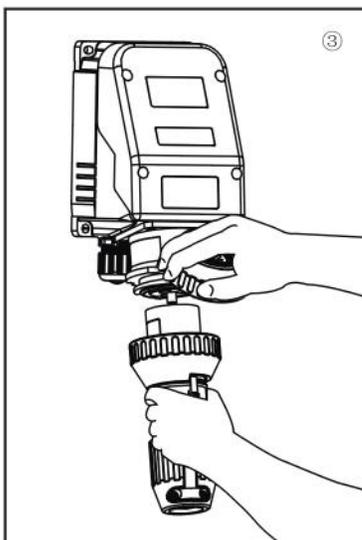
▲ Plugs insert wall type sockets completely.



◀ Wall type sockets are fitted with protective covers which secure degree of protection IP66. When using it, turn round the cover according to arrow, and the cover will be opened, then the plug can be inserted.



▲ Turn right the plugs, when hearing the sound of " kaca ", while the power is connected. In this case, it's impossible to pull out the plug from the socket. Last revolve the plug and lock it on the socket to comply with the requirement of IP66.



◀ The pins of the plugs are opposite to the sockets.



• Main technical data:

Certification | Ex mark | Meet the standard

China (PCEC Ex)	Ex de II C T5/T6 Gb (Wall type socket, plug, coupler type socket) Ex de II C Gb (Panel type socket)	GB3836 GB12476
IECEX	Ex de II C T5/T6 Gb Ex tD A21 T 95°C/80°C Ta ≤ 55°C/45°C (Wall type socket, plug, coupler type socket) Ex de II C Gb Ex tD A21 (Panel type socket)	IEC60079
ATEX	⊕ II 2GD Ex de II C T5/T6 Gb Ex tD A21 T 95°C/80°C Ta ≤ 55°C/45°C (Wall type socket, plug, coupler type socket) ⊕ II 2GD Ex de II C Gb Ex tD A21 (Panel type socket)	EN60079

Intended use: Can be used in zone 1 and zone 2, Can be used in zone 21 and zone 22

Ambient temperature use: -40°C ≤ Ta ≤ 55°C

Degree of protection: IP66

Frequency: 50/60Hz

Rated voltage: Up to 690V ~

Rated current: maximum 16A

Switch capacity: AC3 up to 690V/16A

Conformity to: CE

Cable entry: Wall type socket: (Standard configure)

Moulded plastic 1 × M25 Φ8 ~ 17mm

Moulded plastic 1 × M25 stopping plug

See page C/10 for other forms

4、5 Poles Plug: Cable outside diameter Φ5 ~ 20mm

4、5 Poles coupler type socket: Cable outside diameter Φ5 ~ 20mm

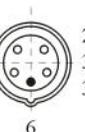
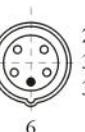
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• Order specifications:

16A-4 Poles

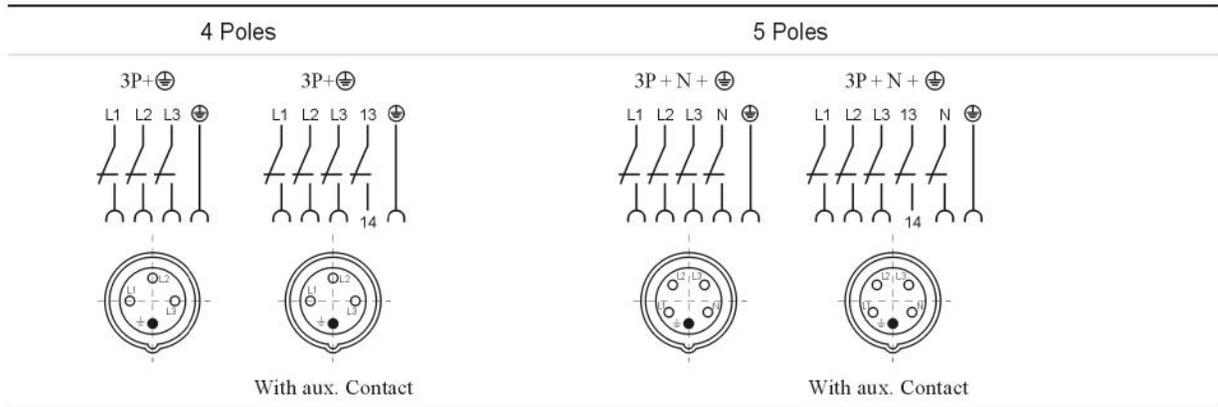
Illustration	Clock h and voltage	Type	Aux. Contact	Weight	Order No.
 Wall type socket	 200-250V 3P + PE	Wall type socket	NO	1.2kg	CZ0251 4409 0001
		Panel type socket	NO	0.4kg	CZ0251 8409 0001
		Coupler type socket	NO	0.7kg	CZ0251 3409 0001
		Plug	NO	0.35kg	CZ0251 7409 0001
		Plug with protective cover	NO	0.37kg	CZ0251 7409 8034
 Panel type socket	 380-415V 3P + PE	Wall type socket	NO	1.2kg	CZ0251 4406 0001
		Wall type socket	Yes	1.2kg	CZ0251 4406 4001
		Panel type socket	NO	0.4kg	CZ0251 8406 0001
		Coupler type socket	NO	0.7kg	CZ0251 3406 0001
		Plug	NO	0.35kg	CZ0251 7406 0001
 Coupler type socket	 480-500V 3P + PE	Wall type socket	NO	1.2kg	CZ0251 4407 0001
		Wall type socket	Yes	1.2kg	CZ0251 4407 4001
		Panel type socket	NO	0.4kg	CZ0251 8407 0001
		Coupler type socket	NO	0.7kg	CZ0251 3407 0001
		Plug	NO	0.35kg	CZ0251 7407 0001
 Plug	 600-690V 3P + PE	Wall type socket	NO	1.2kg	CZ0251 4405 0001
		Wall type socket	Yes	1.2kg	CZ0251 4405 4001
		Panel type socket	NO	0.4kg	CZ0251 8405 0001
		Coupler type socket	NO	0.7kg	CZ0251 3405 0001
		Plug	NO	0.35kg	CZ0251 7405 0001
 Plug with protective cover	 600-690V 3P + PE	Plug with protective cover	NO	0.37kg	CZ0251 7405 8034

16A-5 Poles

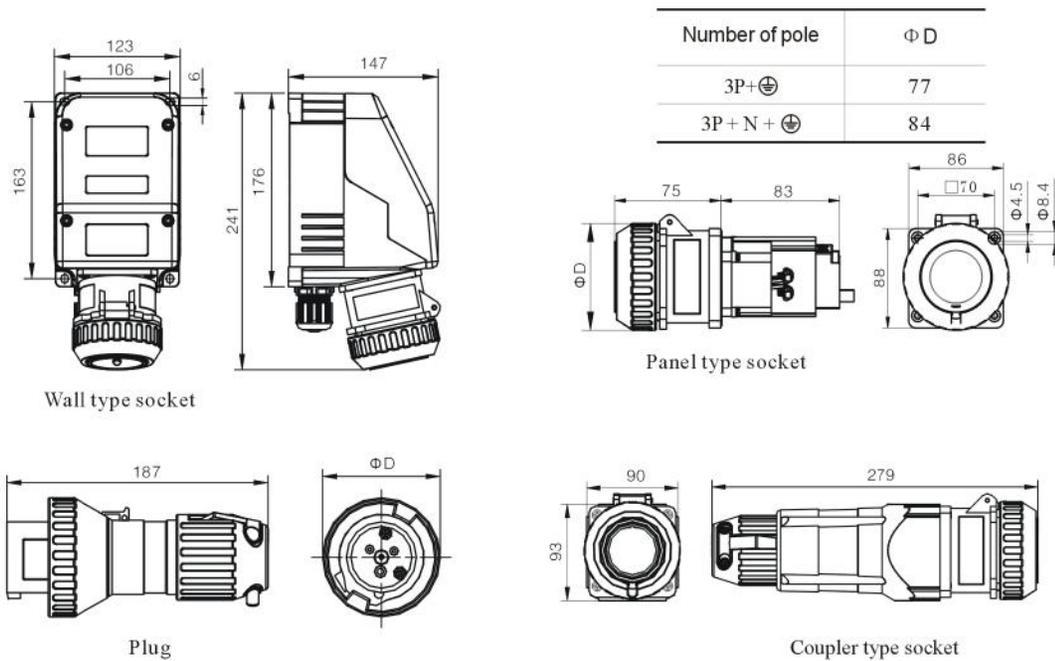
Illustration	Clock h and voltage	Type	Aux. Contact	Weight	Order No.
 Plug with protective cover	 200-250V 380-415V 3P + N + PE	Wall type socket	NO	1.2kg	CZ0251 4506 0001
		Wall type socket	Yes	1.2kg	CZ0251 4506 4001
		Panel type socket	NO	0.4kg	CZ0251 8506 0001
		Coupler type socket	NO	0.7kg	CZ0251 3506 0001
		Plug	NO	0.35kg	CZ0251 7506 0001
 Plug with protective cover	 200-250V 380-415V 3P + N + PE	Plug with protective cover	NO	0.37kg	CZ0251 7506 8034



• Wiring diagram of socket and plug:



• Outline dimensions:



• Other forms cable entries of wall type socket:

CZ0251 4506 00 □ □

Code of cable gland

Code	Specification	Connecting board	Cable diameter
01	One moulded plastic CZ0220/M25 × 1.5 cable gland, one moulded plastic M25 × 1.5 stoppong plug.	Moulded plastic	Φ 8-17mm
03	One brass CZ0227/M25 × 1.5-G3/4" increasd safety metal cable gland, one moulded plastic M25 × 1.5 stopping plug.	Brass	Φ 11-15mm
04	One brass CZ0226/M25 × 1.5 increasd safety metal cable gland (stuffing boxes), one moulded plastic M25 × 1.5 stopping plug.	Brass	A: Φ 6-12.5mm B: Φ 11.5-16mm
06	Two moulded plastic CZ0220/M25 × 1.5 cable gland	Moulded plastic	Φ 8-17mm

• Accessories: For plastic mounting board and rain-proof guard see page C/19.