



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:



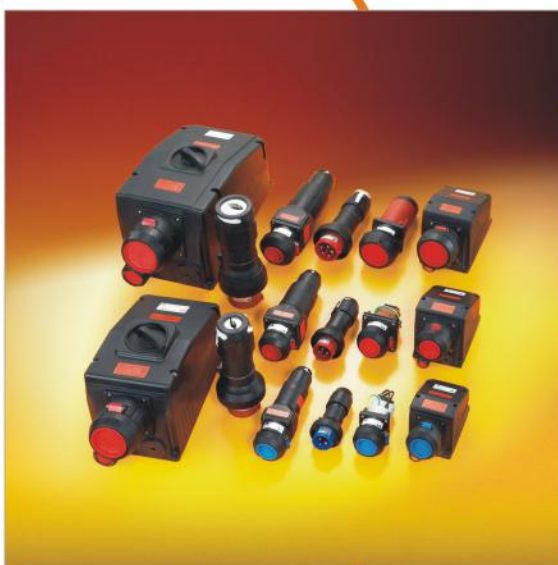
CZ0552 Full plastic explosion-proof mobile power branch connection socket box



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

C

• Diagram:



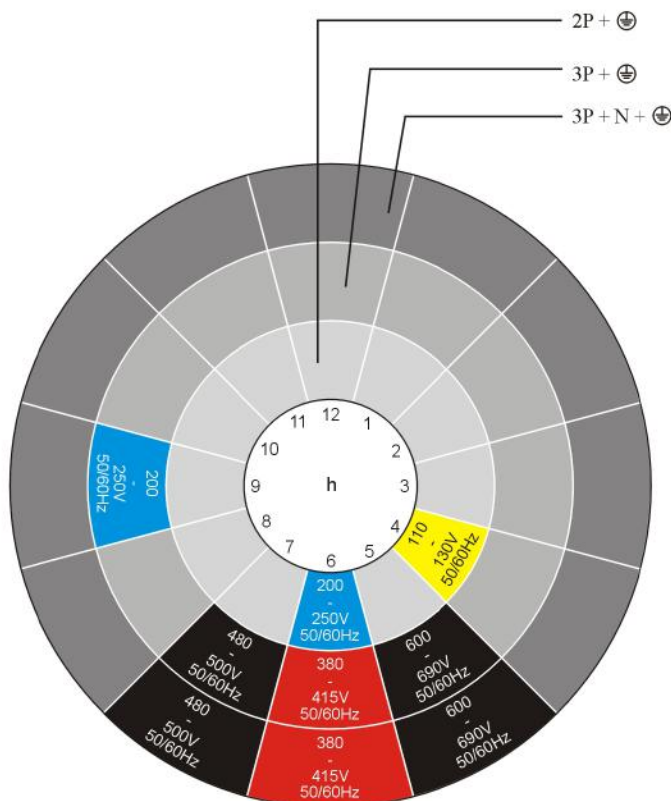
Explosion-proof plugs and sockets have the feature of self-cleaning. An elastic shutter type spring casing is mounted in the inserting sleeve of the socket, which ensure low contact resistance and low temperature rise while reducing the force of inserting and pulling.

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Inserting sleeve

Shutter type spring casing

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

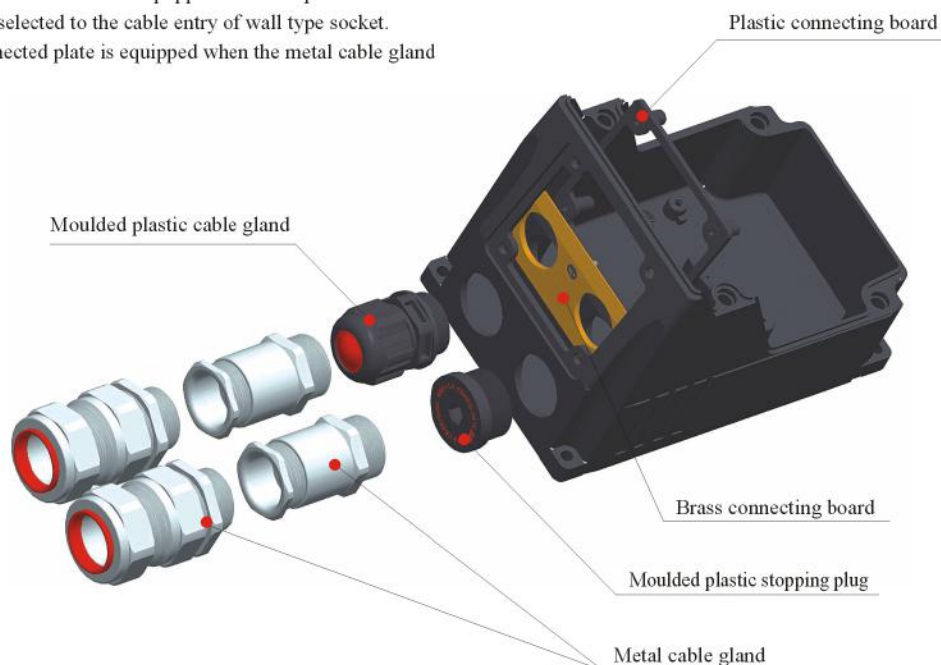


Sockets and plugs for industry are designed to conform to the international standard IEC60309, CEE publication, "Standard Requirements of sockets and plugs for industry" and GB/T11918-2001 "Couplers of plugs and sockets for Industry" part 1: General Requirements.

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.



• 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

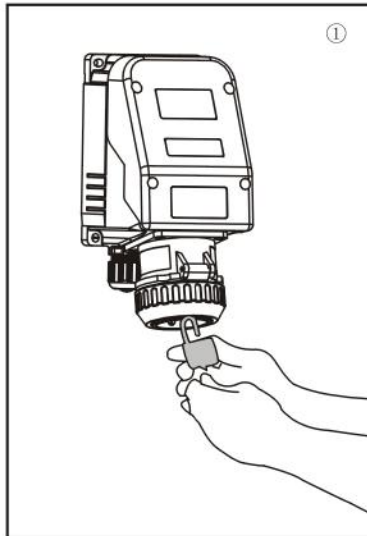
Note: The explosion-proof plug can be inserted into the weather-proof socket but the weather-proof plug can't be inserted into the explosion-proof socket to use.



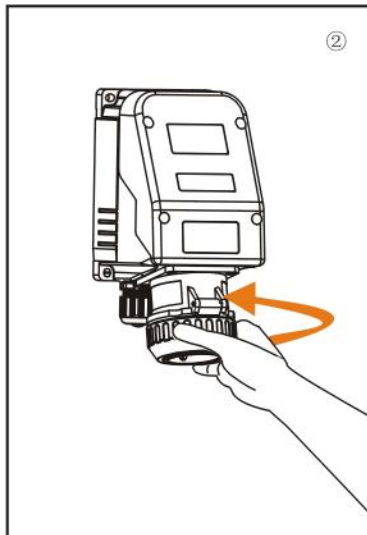
Explosion-proof plug

Weather-proof plug

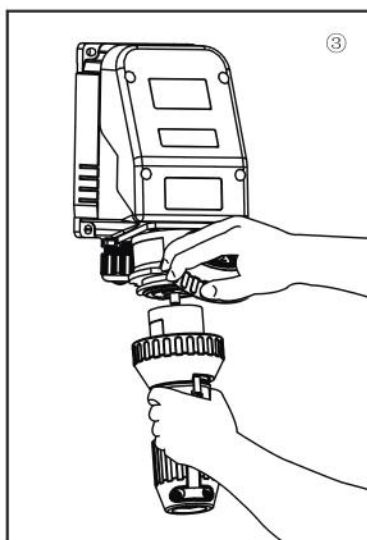
• CZ0251、CZ0252 Operation:



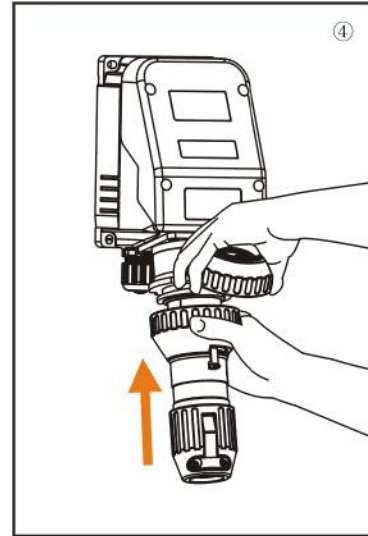
◀ The protective cover of the explosion-proof wall type sockets are fitted with openings for padlocks.



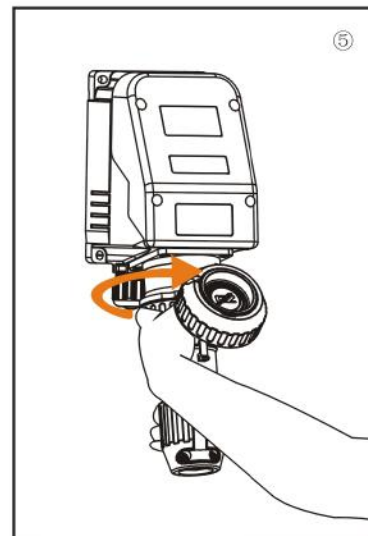
◀ Wall type sockets are fitted with protective covers which secure degree of protection IP66. When using it, turn round the cover according to arrow, and the cover will be opened, then the plug can be inserted.



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



▲ Plugs insert wall type sockets completely.



▲ 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.



CZ0252 Full plastic Explosion-proof plugs and 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 32A

Switch capacity: AC3 up to 690V/32A

Conformity to: **CE**

Cable entry: Wall type socket (Standard configure)

Moulded puastic 1 × M32 Φ12 ~ 21mm

Moulded plastic 1 × M32 stopping plug

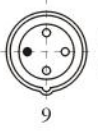
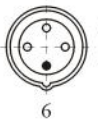
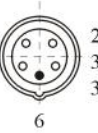
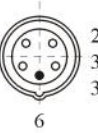
See page C/12 for other forms

4、 5 Poles plug: Cable outside diameter Φ10 ~ 28mm

4、 5 Poles coupler type: Cable outside diameter Φ10 ~ 28mm

• Order specifications:

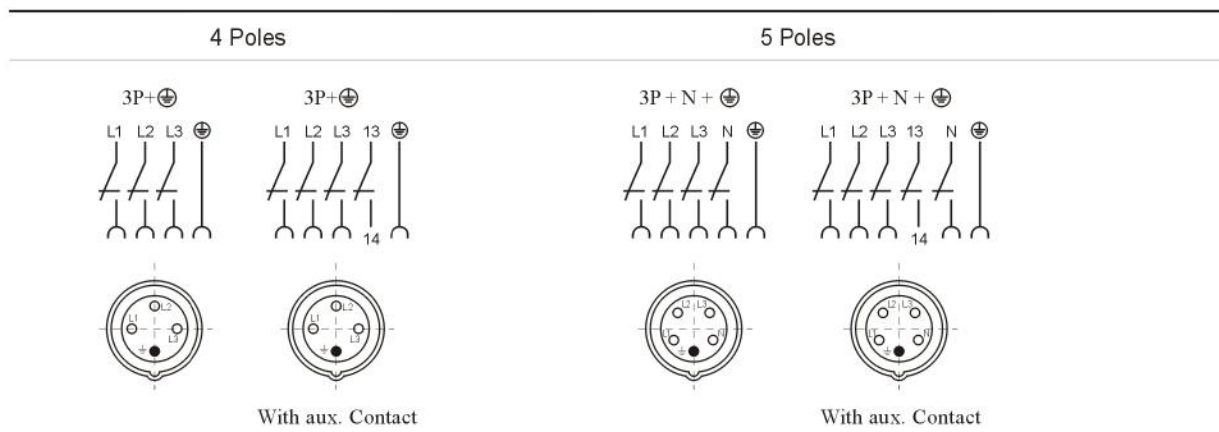
32A-4 Poles

Illustration	Clock h and voltage	Type	Aux. Contact	Weight	Order No.
	 200-250V 3P + PE	Wall type socket		1.8kg	CZ0252 4409 0001
		Panel type socket		1.0kg	CZ0252 8409 0001
		Coupler type socket		1.7kg	CZ0252 3409 0001
		Plug		0.7kg	CZ0252 7409 0001
		Plug with protective cover		0.74kg	CZ0252 7409 8034
	 380-415V 3P + PE	Wall type socket	NO	1.8kg	CZ0252 4406 0001
		Wall type socket	Yes	1.8kg	CZ0252 4406 4001
		Panel type socket	NO	1.0kg	CZ0252 8406 0001
		Coupler type socket	NO	1.7kg	CZ0252 3406 0001
		Plug	NO	0.7kg	CZ0252 7406 0001
	 480-500V 3P + PE	Wall type socket	NO	1.8kg	CZ0252 4407 0001
		Wall type socket	Yes	1.8kg	CZ0252 4407 4001
		Panel type socket	NO	1.0kg	CZ0252 8407 0001
		Coupler type socket	NO	1.7kg	CZ0252 3407 0001
		Plug	NO	0.7kg	CZ0252 7407 0001
	 600-690V 3P + PE	Wall type socket	NO	1.8kg	CZ0252 4405 0001
		Wall type socket	Yes	1.8kg	CZ0252 4405 4001
		Panel type socket	NO	1.0kg	CZ0252 8405 0001
		Coupler type socket	NO	1.7kg	CZ0252 3405 0001
		Plug	NO	0.7kg	CZ0252 7405 0001
	 600-690V 3P + PE	Plug with protective cover	NO	0.74kg	CZ0252 7405 8034
	 200-250V 380-415V 3P + N + PE	Wall type socket	NO	1.8kg	CZ0252 4506 0001
		Wall type socket	Yes	1.8kg	CZ0252 4506 4001
		Panel type socket	NO	1.0kg	CZ0252 8506 0001
		Coupler type socket	NO	1.7kg	CZ0252 3506 0001
		Plug	NO	0.7kg	CZ0252 7506 0001
	 200-250V 380-415V 3P + N + PE	Plug with protective cover	NO	0.74kg	CZ0252 7506 8034

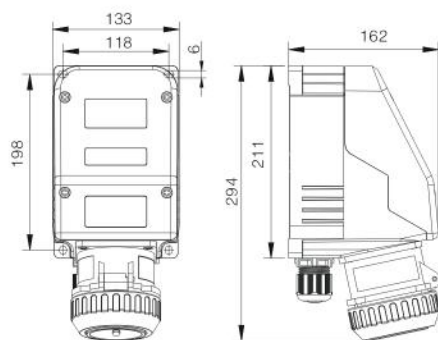
32A-5 Poles



• Wiring diagram of socket and plug:

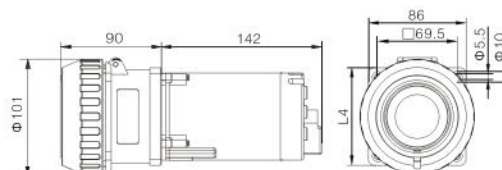


• Outline dimensions:

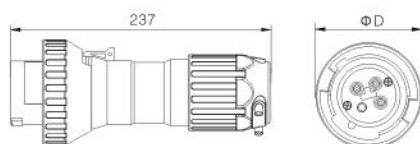


Wall type socket

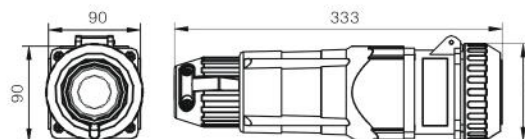
Number of pole	Φ D
3P+⊕	96
3P+N+⊕	101



Panel type socket



Plug



Coupler type socket

• Other forms cable entries of wall type socket:

CZ0252 4506 00 ☐ ☐

Code of cable gland

Code	Specification	Connecting board	Cable diameter
01	One moulded plastic CZ0220/M32 × 1.5 cable gland, one moulded plastic M32 × 1.5 stoppong plug.	Moulded plastic	Φ 12-21mm
03	One brass CZ0227/M32 × 1.5-G1" increasd safety metal cable gland, one moulded plastic M32 × 1.5 stopping plug.	Brass	Φ 11-19mm
04	One brass CZ0226/M32 × 1.5 increasd safety metal cable gland (stuffing boxes), one moulded plastic M32 × 1.5 stopping plug.	Brass	A: Φ 11-18.5mm B: Φ 20.5-27.5mm
06	Two moulded plastic CZ0220/M32 × 1.5 cable gland	Moulded plastic	Φ 12-21mm

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