



#### **Descriptions:**

The full plastic explosion–roof 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

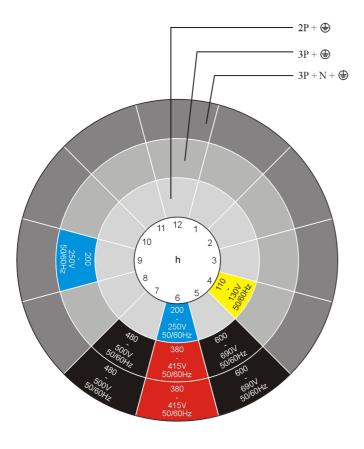


# • Diagram:



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.

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

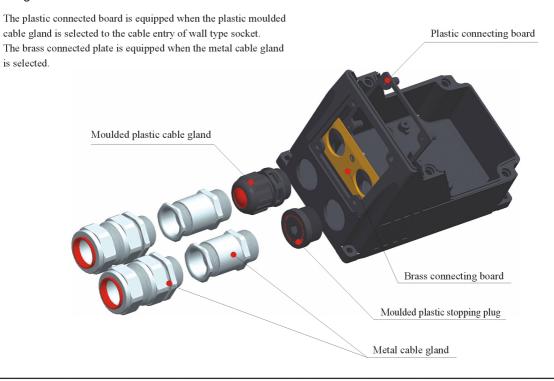


Sockets and plugs for industry are designed to conform to the international standard IEC60309, CEE publication, "Standard Requirements of sockets and plugs for industry" and GB/T11918-2001"Couplers of plugs and sockets for Industry" part 1: General Requirements.

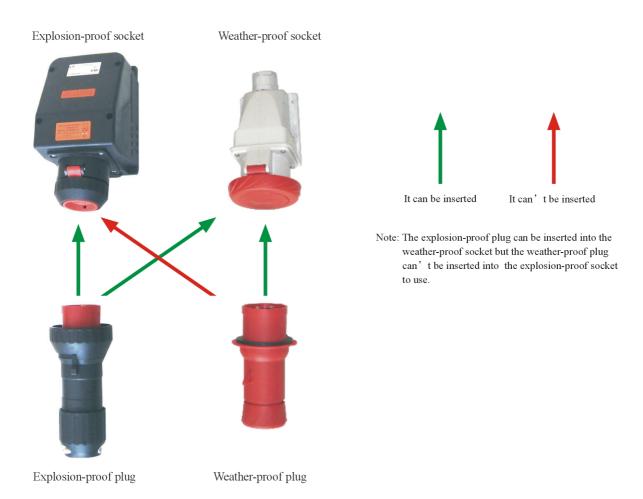
When selecting plugs and sockets in the present range of standard for manufacturing, the circular socket and plug should be selected of clock and colour mis-inserting proof according to different voltage, current and number of pole.



# • Diagram:

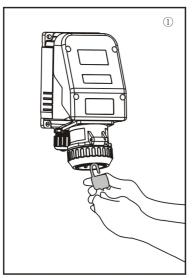


• The mutual exchange of explosion-proof and weather-proof plug and socket is as following

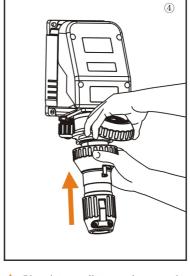




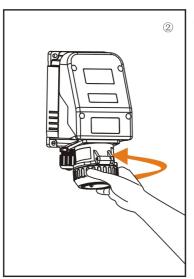
#### • CZ0251 CZ0252 Operation:



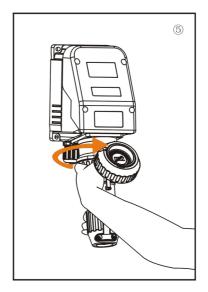
The protective cover of the explosion-proof wall type sockets are fitted with openings for padlocks.



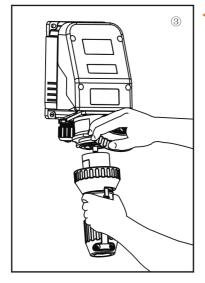
▲ Plugs insert wall type sockets completely.



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.



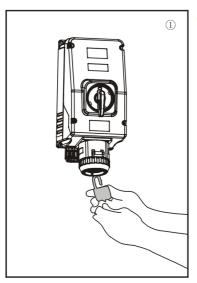
The pins of the plugs are opposite to the sockets.



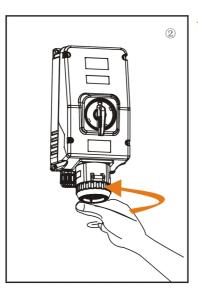
▲ Turn right the plugs, when hearing the sound of "kaca", while the power is connected. In this case, it's impossible to pull out the plug from the socket. Last revolve the plug and lock it on the socket to comply with the requirement of IP66.



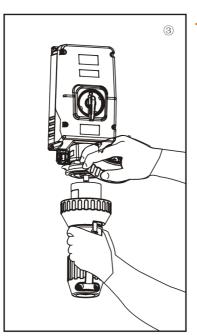
#### • CZ0253 CZ0254 Operation:



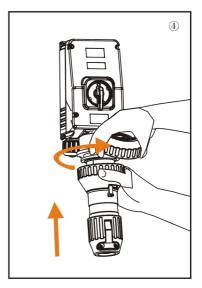
The protective cover of the explosion-proof wall type sockets are fitted with openings for padlocks.



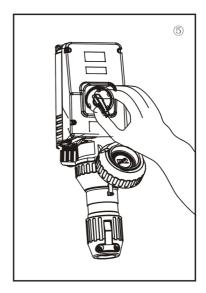
Wall type sockets are fitted with protective covers which secure degree of protection IP66. When using it, turn round the cover according to arrow, and the cover will be opened, then the plug can be inserted.



The pins of the plugs are opposite to the sockets.



Plugs insert wall type sockets completely, revolve the plug and lock it on the socket to comply with the requirement of IP66.



▲ 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.



Refuses to circumgyrate the switch handle, when the plug is not insert in the socket.



#### Main technical data:

Certification | Ex mark | Meet the standard

China (PCEC Ex)	Ex ed II C T6 DIP A21 TA, T6	GB3836 GB12476
IECEx	Under approval	IEC60079
ATEX	Under approval	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  $\leq$  Ta  $\leq$  40 °C

Degree of protection: IP66 Rated voltage: up to 50V Rated current: maximum 16A

Switch capacity: AC3 16A DC-21A 16A

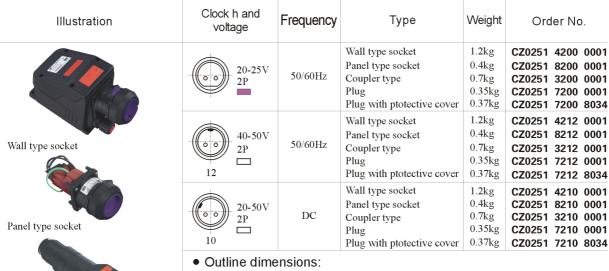
Cable entry: Wall type socket ( Standard configure ) 1 × M25  $~\Phi\,8 \sim 17 mm$ 

See page C/10 for other forms

Plug: Cable outside diameter  $\Phi\,8\sim18.5mm$  Coupler type: Cable outside diameter  $\Phi\,8\sim18.5mm$ 

# • Order specifications:

16A-2 Poles



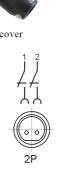
# Coupler type socket

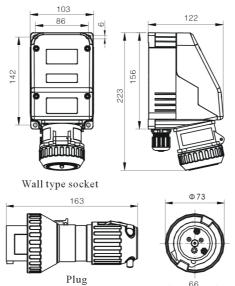




Plug with ptotective cover

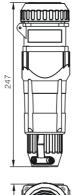






panel type socket

□53





Coupler type socket

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



#### • 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	<ul> <li></li></ul>	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  $\leq$  Ta  $\leq$  55 °C

Degree of protection: IP66
Frequency: 50/60Hz
Rated voltage: Up to 250V ~
Rated current: maximum 16A
Switch capacity: AC3 up to 250V/16A

Conformity to: **⟨€** 

Cable entry: Wall type socket (Standard configure) 1 × M25  $\,\Phi$  8  $\sim$  17mm

See page C/10 for other forms

Plug: Cable outside diameter  $\Phi$  5 ~ 18.5mm

Coupler type socket: Cable outside diameter  $\,\Phi\,5\sim18.5mm$ 

### • Order specifications:

16A-3 Poles

