

Full plastic Explosion-proof plugs and sockets



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

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

- 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:







CZ0555/8 Explosion-proof





combined power socket boxes









CZ0551 Explosion-proof

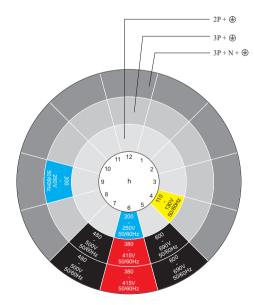
Full plastic Explosion-proof plugs and sockets

• 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:

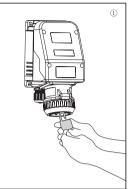


Sockets and plugs for industry are designed to conform to the international standard IEC60309, CEE publication, "Standard Requirements of sockets and plugs for industry " and GB/T11918-2001"Couplers of plugs and sockets for Industry" part 1: General Requirements.

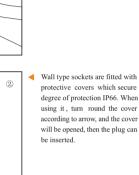
When selecting plugs and sockets in the present range of standard for manufacturing, the circular socket and plug should be selected of clock and colour mis-inserting proof according to different voltage, current and number of pole.

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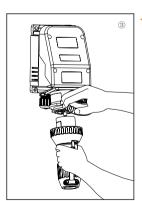
• CZ0251 CZ0252 Operation:



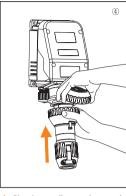
The protective cover of the explosion-proof wall type sockets are fitted with openings for padlocks.



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.

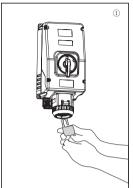


▲ Turn right the plugs, when hearing the sound of "kaca", while the power is connected. In this case, it's impossible to pull out the plug from the socket. Last revolve the plug and lock it on the socket to comply with the requirement of IP66.

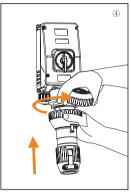


CZ025 □ Full plastic Explosion-proof plugs and sockets

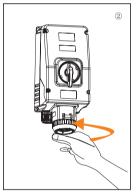
• CZ0253 CZ0254 Operation:



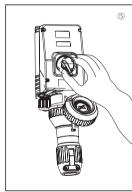
The protective cover of the explosion-proof wall type sockets are fitted with openings for padlocks.



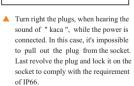
▲ Plugs insert wall type sockets completely, revolve the plug and lock it on the socket to comply with the requirement of IP66.

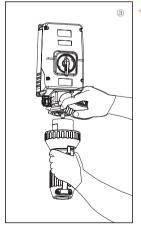


Wall type sockets are fitted with protective covers which secure degree of protection IP66. When using it, turn round the cover according to arrow, and the cover will be opened, then the plug can be inserted.



The pins of the plugs are opposite to the sockets.



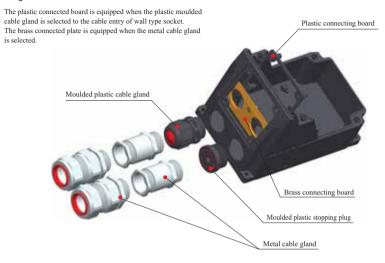


Refuses to circumgyrate the switch handle, when the plug is not insert in the socket.

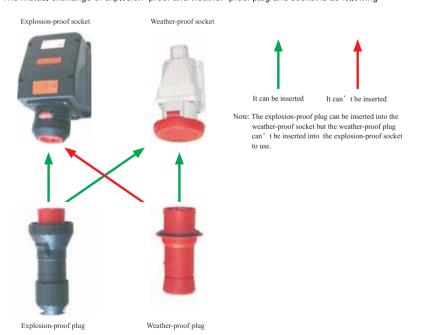


CZ025□ Full plastic Explosion-proof plugs and sockets

• Diagram:



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





CZ0251 Full plastic Explosion-proof plugs and sockets

Main technical data:

Ex mark:

Wall type socket, plug, coupler type socket

⑤ II 2GD Ex de II C T6 Gb Ex tD A21 T 80 °C Ta ≤ 45 °C

© II 2GD Ex de II C T5 Gb Ex tD A21 T 95 ℃ Ta ≤ 55 ℃

Panel type socket: @ II 2GD Ex de II C Gb Ex tD A21

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 250V ~ Rated current: maximum 16A

Switch capacity: AC3 up to 250V/16A

Meet the standard: IEC60079 IEC61241 EN60079 EN61241

Conformity to: **(€**

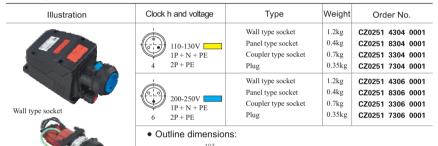
Cable entry: Wall type socket (Standard configure) 1 × M25 Φ8 ~ 17mm, See page 8 for other forms

Plug: Cable outside diameter Φ 5 ~ 18.5mm

Coupler type socket: Cable outside diameter Φ 5 ~ 18.5mm

Order specifications:

16A-3 Poles



Panel type socket

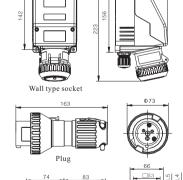




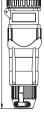


Wiring diagram of socket and plug:





Panel type socket





Coupler type socket

• Accessories: For plastic mounting board and rain-proof guard see page 15.



CZ0251 Full plastic Explosion-proof plugs and sockets

Main technical data:

Ex mark:

Wall type socket, plug, coupler type socket

© II 2GD Ex de II C T6 Gb Ex tD A21 T 80 °C Ta ≤ 45 °C

© II 2GD Ex de II C T5 Gb Ex tD A21 T 95 °C Ta ≤ 55 °C

Panel type socket: I 2GD Ex de II C Gb Ex tD A21

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

Meet the standard: IEC60079 IEC61241 EN60079 EN61241

Conformity to: **(€**

Cable entry: Wall type socket: (Standard configure)

Moulded plastic 1 × M25 ⊕8 ~ 17mm

Moulded plastic 1 × M25 stopping plug See page 8 for other forms

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

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

• Order specifications:

16A-4 Poles

16A-5 Poles

					10/11/0100
Illustration	Clock h and voltage	Туре	Aux. Contact	Weight	Order No.
	-	Wall type socket	NO	1.2kg	CZ0251 4409 0001
	200-250V	Panel type socket	NO	0.4kg	CZ0251 8409 0001
	3P + PE	Coupler type socket	NO	0.7kg	CZ0251 3409 0001
	9	Plug	NO	0.35kg	CZ0251 7409 0001
		Wall type socket	NO	1.2kg	CZ0251 4406 0001
	380-415V	Wall type socket	Yes	1.2kg	CZ0251 4406 4001
Wall type socket	3P + PE	Panel type socket	NO	0.4kg	CZ0251 8406 0001
wan type socker		Coupler type socket	NO	0.7kg	CZ0251 3406 0001
	ь	Plug	NO	0.35kg	CZ0251 7406 0001
	1	Wall type socket	NO	1.2kg	CZ0251 4407 0001
	480-500V	Wall type socket	Yes	1.2kg	CZ0251 4407 4001
	3P + PE	Panel type socket	NO	0.4kg	CZ0251 8407 0001
		Coupler type socket	NO	0.7kg	CZ0251 3407 0001
Panel type socket	7	Plug	NO	0.35kg	CZ0251 7407 0001
		Wall type socket	NO	1.2kg	CZ0251 4405 0001
	600-690V	Wall type socket	Yes	1.2kg	CZ0251 4405 4001
	3P + PE	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

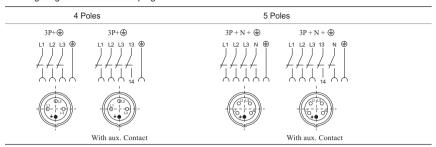




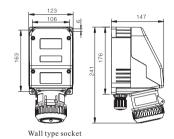
Clock h and voltage	Туре	Aux. Contact	Weight	Order No.
200-250V 380-415V 3P + N + PE	Wall type socket Wall type socket Panel type socket Coupler type socket Plug	NO Yes NO NO	1.2kg 1.2kg 0.4kg 0.7kg 0.35kg	CZ0251 4506 0001 CZ0251 4506 4001 CZ0251 8506 0001 CZ0251 3506 0001 CZ0251 7506 0001

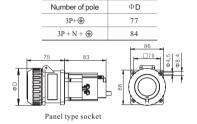
CZ0251 Full plastic Explosion-proof plugs and sockets

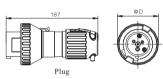
· Wiring diagram of socket and plug:

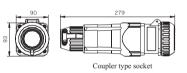


• Outline dimensions:

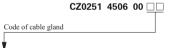








• Other forms cable entries of wall type socket:



Code	Specification	Connecting board	Cable diameter
01	One moulded plastic CZ0220/M25 \times 1.5 cable gland, one moulded plastic M25 \times 1.5 stoppong plug.	Moulded plastic	Ф8-17mm
03	One brass CZ0227/M25 \times 1.5-G3/4 $^{\prime\prime}$ increasd safety metal cable gland, one moulded plastic M25 \times 1.5 stopping plug.	Brass	Ф11-15mm
04	One brass CZ0226/M25 \times 1.5 increasd safety metal cable gland (stuffing boxes), one moulded plastic M25 \times 1.5 stopping plug.	Brass	А: Ф6-12.5mm В: Ф11.5-16mm
05	Two moulded plastic CZ0220/M25 × 1.5 cable gland (With Aux.contact 1NO)	Moulded plastic	Ф8-17mm

[•] Accessories: For plastic mounting board and rain-proof guard see page 15.



CZ0252 Full plastic Explosion-proof plugs and sockets

• Main technical data:

Ex mark:

Wall type socket, plug, coupler type socket

© II 2GD Ex de II C T6 Gb Ex tD A21 T 80°C Ta ≤ 40°C

© II 2GD Ex de II C T5 Gb Ex tD A21 T 95 ℃ Ta ≤ 55 ℃

Panel type socket: 🐼 II 2GD Ex de II C Gb Ex tD A21

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

Meet the standard: IEC60079 IEC61241 EN60079 EN61241

Conformity to: C€

Cable entry: Wall type socket (Standard configure)

Moulded puastic 1 × M32 Φ12 ~ 21mm

Moulded plastic 1 × M32 stopping plug See page 10 for other forms

4, 5 Poles plug: Cable outside diameter Φ 10 ~ 28mm

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

• Order specifications:

32A-4 Poles

32A-5 Poles

Illustration	Clock h and voltage	Туре	Aux. Contact	Weight	Order No.
111	200-250V 3P + PE	Wall type socket Panel type socket Coupler type socket Plug		1.8kg 1.0kg 1.7kg 0.7kg	CZ0252 4409 0001 CZ0252 8409 0001 CZ0252 3409 0001 CZ0252 7409 0001
Wall type socket	380-415V 3P + PE	Wall type socket Wall type socket Panel type socket Coupler type socket Plug	NO Yes NO NO	1.8kg 1.8kg 1.0kg 1.7kg 0.7kg	CZ0252 4406 0001 CZ0252 4406 4001 CZ0252 8406 0001 CZ0252 3406 0001 CZ0252 7406 0001
Panel type socket	480-500V 3P + PE	Wall type socket Wall type socket Panel type socket Coupler type socket Plug	NO Yes NO NO NO	1.8kg 1.8kg 1.0kg 1.7kg 0.7kg	CZ0252 4407 0001 CZ0252 4407 4001 CZ0252 8407 0001 CZ0252 3407 0001 CZ0252 7407 0001
	600-690V 3P + PE	Wall type socket Wall type socket Panel type socket Coupler type socket Plug	NO Yes NO NO	1.8kg 1.8kg 1.0kg 1.7kg 0.7kg	CZ0252 4405 0001 CZ0252 4405 4001 CZ0252 8405 0001 CZ0252 3405 0001 CZ0252 7405 0001



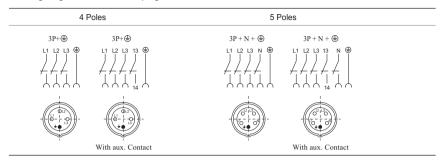
Coupler type socket



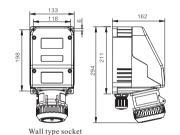
Clock h and voltage	Туре	Aux. Contact	Weight	Order No.
_	Wall type socket	NO	1.8kg	CZ0252 4506 0001
200-250V	Wall type socket	Yes	1.8kg	CZ0252 4506 4001
380-415V	Panel type socket	NO	1.0kg	CZ0252 8506 0001
3P + N + PE	Coupler type socket	NO	1.7kg	CZ0252 3506 0001
6	Plug	NO	0.7kg	CZ0252 7506 0001

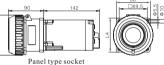
CZ0252 Full plastic Explosion-proof plugs and sockets

• Wiring diagram of socket and plug:



Outline dimensions:





Number of pole

3P+⊕

3P + N + 🕀

ΦД

96

101

Coupler type socket

• Other forms cable entries of wall type socket:



Code	Specification	Connecting board	Cable diameter
01	One moulded plastic CZ0220/M32 \times 1.5 cable gland, one moulded plastic M32 \times 1.5 stoppong plug.	Moulded plastic	Ф12-21mm
03	One brass CZ0227/M32 \times 1.5-G1 $^{\prime\prime}$ increasd safety metal cable gland, one moulded plastic M32 \times 1.5 stopping plug.	Brass	Ф11-19mm
04	One brass CZ0226/M32 \times 1.5 increasd safety metal cable gland (stuffing boxes), one moulded plastic M32 \times 1.5 stopping plug.	Brass	A: Φ11-18.5mm B: Φ20.5-27.5mm
05	One moulded plastic CZ0220/M32 × 1.5 cable gland Two moulded plastic CZ0220/M25 × 1.5 cable gland (With Aux.contact 1NO)	Moulded plastic	Ф12-21mm Ф8-17mm

[•] Accessories: For plastic mounting board and rain-proof guard see page 15.



CZ0253 Full plastic Explosion-proof plugs and sockets

• Main technical data:

Ex mark:

⑤ II 2GD Ex de II C T6 Gb Ex tD A21 T 80 °C Ta ≤ 40 °C © | 2GD Ex de | CT5 Gb Ex tD A21 T 95℃ Ta < 55℃

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 63A Switch capacity: AC3 up to 690V/63A

Meet the standard: IEC60079 IEC61241 EN60079 EN61241

Conformity to: **(€**

Cable entry: Wall type socket (Standard configure)

Moulded puastic 1 × M50 Φ22 ~ 35mm

Moulded plastic 1 × M50 stopping plug, See page 12 for other forms

4, 5 Poles Plug: Cable outside diameter Φ15 ~ 35mm

Weight: Wall type socket: 8.1 kg Plug: 0.85 kg

• Order specifications:

63A-4 Poles

				03A-4 FUIES
Illustration	Clock h and voltage	Туре	Aux. Contact	Order No.
1100	200-250V 3P + PE	Wall type socket Plug	NO NO	CZ0253 4409 0001 CZ0253 7409 0001
	380-415V 3P + PE	Wall type socket Wall type socket Plug	NO Yes NO	CZ0253 4406 0001 CZ0253 4406 4001 CZ0253 7406 0001
Wall type socket	480-500V 3P + PE	Wall type socket Wall type socket Plug	NO Yes NO	CZ0253 4407 0001 CZ0253 4407 4001 CZ0253 7407 0001
	600-690V 3P + PE	Wall type socket Wall type socket Plug	NO Yes NO	CZ0253 4405 0001 CZ0253 4405 4001 CZ0253 7405 0001
Plug				63A-5 Poles
	Clock h and voltage	Туре	Aux. Contact	Order No.
	200-250V	Wall type socket	NO	CZ0253 4506 0001

3P + N + PE

Wall type socket

Plug

Yes

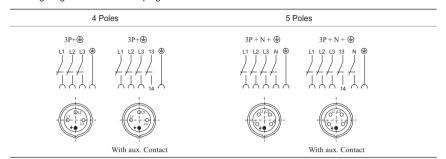
NO

CZ0253 4506 4001

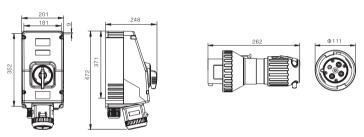
CZ0253 7506 0001

CZ0253 Full plastic Explosion-proof plugs and sockets

· Wiring diagram of socket and plug:

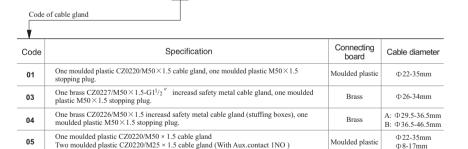


• Outline dimensions:



• Other forms cable entries of wall type socket:

CZ0253 4506 00





CZ0254 Full plastic Explosion-proof plugs and sockets

• Main technical data:

Ev mark

© II 2GD Ex de II C T5 Gb Ex tD A21 T 95 ℃ Ta ≤ 45 ℃

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 ≤ 45 °C

Degree of protection: IP66 Frequency: 50/60Hz Rated voltage: Up to 690V ~ Rated current: maximum 125A

Switch capacity: AC3 up to 690V/125A

Meet the standard: IEC60079 IEC61241 EN60079 EN61241

Conformity to: **C**€

Cable entry: Wall type socket (Standard configure)

Moulded puastic 1 × M63 Φ27 ~ 48mm

Moulded plastic 1 × M63 stopping plug See page 14 for other forms

4, 5 Poles plug: Cable outside diameter Φ20 ~ 57mm

Weight: Wall type socket: 13.5 kg

Plug: 1.3 kg

Order specifications:

125A-4 Poles

Illustration	Clock h and voltage	Туре	Aux. Contact	Order No.
Ma	200-250V 3P + PE	Wall type socket	NO NO	CZ0254 4409 0001 CZ0254 7409 0001
	380-415V 3P + PE	Wall type socket Wall type socket Plug	NO Yes NO	CZ0254 4406 0001 CZ0254 4406 4001 CZ0254 7406 0001
Wall type socket	480-500V 3P + PE	Wall type socket Wall type socket Plug	NO Yes NO	CZ0254 4407 0001 CZ0254 4407 4001 CZ0254 7407 0001
	600-690V 3P + PE	Wall type socket Wall type socket Plug	NO Yes NO	CZ0254 4405 0001 CZ0254 4405 4001 CZ0254 7405 0001
				125A 5 Dolos

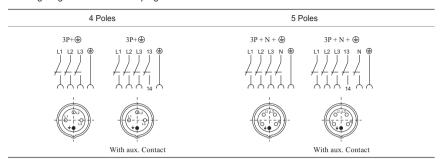


Clock h and voltage	Туре	Aux. Contact	Order No.
200-250V	Wall type socket	NO	CZ0254 4506 0001
380-415V	Wall type socket	Yes	CZ0254 4506 4001
3P + N + PE	Plug	NO	CZ0254 7506 0001

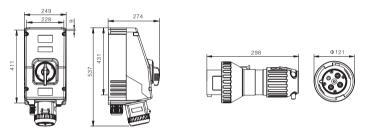


CZ0254 Full plastic Explosion-proof plugs and sockets

· Wiring diagram of socket and plug:

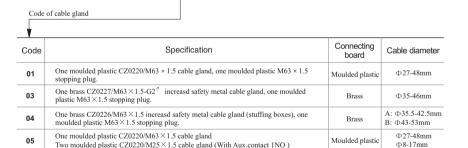


• Outline dimensions:



• Other forms cable entries of wall type socket:

CZ0254 4506 00 III

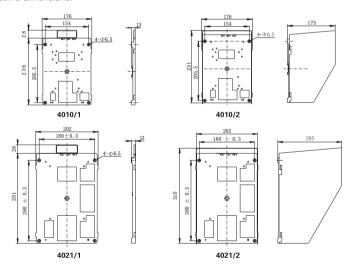




• Accessories: plastic mounting bracket and water-proof cover

Illustration	Description	Order No.
	Use for CZ0251 Wall type explosion-proof socket	4010/1
Pendant type mounting way	Use for CZ0252 Wall type explosion-proof socket	4021/1
	Use for CZ0251 Wall type explosion-proof socket	4010/2
Pendant type with stainless steel rain-proof cover	Use for CZ0252 Wall type explosion-proof socket	4021/2

• Outline dimensions:



Memo:	

Memo:			