FBG Flameproof Circular Connectors, Ex db IIC T6 Gb

Ex db IIC T6 Gb · flameproof · stainless steel



Ex marking	Ex db IIC T6 Gb
Protection type	Flameproof (d)
Shell sizes	9 to 25
Shell	Stainless steel
Salt spray	500 h

Key features

- Flameproof enclosure: withstands an internal explosion without transmitting it
- Ex db IIC T6 Gb — gas group IIC (covers IIA and IIB), surface temperature ≤ 85 °C
- Ex component certificate to GB 3836 (e.g. CNV23.0042X, CNV23.0044U)
- Stainless-steel shells, 500 h salt spray
- Plug and square-flange receptacle; color-coded rings
- -ZJ version with Ex cable gland

Specifications

Explosion protection

Parameter	Value	Condition
Ex marking	Ex db IIC T6 Gb	
Gas group	IIC	Also suitable for IIA and IIB
Temperature class	T6 (≤ 85 °C)	
Certificate	Ex component, e.g. CNV23.0042X	Ex component certificate: the connector must be certified as part of your complete Ex equipment.

Electrical and mechanical

Parameter	Value	Condition
Dielectric withstanding voltage	≥ 1000 VAC	
Insulation resistance	≥ 1000 MΩ	500 VDC
Durability	500 mating cycles	
Salt spray	500 h	
Shell material	Stainless steel, passivated	

Versions

Series code	Version	Notes
FBG...T	Plug, pin contacts	

Series code	Version	Notes
FBG...ZF	Square-flange receptacle, socket contacts	
B G R V W Y	Color ring: blue, green, red, violet, white, yellow	
-ZJ	With Ex cable gland	

How to order

FBG [shell] K [arrangement] [contact] [type] [color] -ZJ

Example: **FBG25K61SZFB-ZJ** — Shell 25, stainless steel, arrangement 25-61, socket contacts, square-flange receptacle, blue ring, with Ex cable gland

Code segment	Options
Shell	**09 – 25** 9, 11, 13, 15, 17, 19, 21, 23, 25
K	**K** Stainless steel, passivated
Arrangement	**e.g. 61** 38999-type layout — tell us your circuits
Contact	**P / S** Pin (plug) / socket (receptacle)
Type	**T / ZF** Plug / square-flange receptacle
Color ring	**B G R V W Y** Blue, green, red, violet, white, yellow

Never mate or unmate under load in a hazardous area.

Standards

- **GB 3836.1 / GB 3836.2** — Chinese explosive-atmosphere standards (equipment, flameproof enclosure 'd'), aligned with IEC 60079-0 / -1.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=FBG