FBZ Increased-Safety Circular Connectors, Ex ec IIC T4 Gc, IP68

Ex ec IIC T4 Gc · increased safety · IP68



Ex marking	Ex ec IIC T4 Gc
Protection type	Increased safety (e)
Shell sizes	9 to 25
Shell	Stainless steel
Salt spray	500 h
Protection	IP68

Key features

- Increased-safety design: creepage and clearance set by the insulator's CTI
- Ex ec IIC T4 Gc — gas group IIC, surface temperature ≤ 135 °C
- IP68
- Ex component certificate to GB 3836 (e.g. CNV23.0530X)
- Stainless-steel shells, 500 h salt spray
- Plug, square-flange and round-flange receptacles; six key positions

Specifications

Explosion protection

Parameter	Value	Condition
Ex marking	Ex ec IIC T4 Gc	
Temperature class	T4 (≤ 135 °C)	
Certificate	Ex component, e.g. CNV23.0530X	Ex component certificate: the connector must be certified as part of your complete Ex equipment.
Ingress protection	IP68	

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
FBZ...T	Plug, pin contacts	

Series code	Version	Notes
FBZ…ZF	Square-flange receptacle	
FBZ…ZY	Round-flange receptacle	

How to order

FBZ [shell] K [arrangement] [contact] [type] [key]

Example: **FBZ15K04SZFZ** — Shell 15, stainless steel, arrangement 15-04, socket contacts, square-flange receptacle

Code segment	Options
Shell	**9 – 25** 9, 11, 13, 15, 17, 19, 21, 23, 25
K	**K** Stainless steel, passivated
Arrangement	**e.g. 04** 38999-type layout — tell us your circuits
Contact	**P / S** Pin / socket
Type	**T / ZF / ZY** Plug / square-flange / round-flange receptacle
Key	**N A B C D E** Key positions

Never mate or unmate under load in a hazardous area.

Standards

- **GB 3836.1 / GB 3836.3** — Chinese explosive-atmosphere standards (equipment, increased safety 'e'), aligned with IEC 60079-0 / -7.
- **GB 4208 (IEC 60529)** — IP68.

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