

Plugs and Sockets

BCZ85 Series Explosion-proof Plugs and Sockets



Explosion protection to

-CENELEC

-IEC

-NEC

Can be used in

Zone 1 and Zone 2

Zone 21 and Zone 22

Class I, Zone 1 and Zone 2

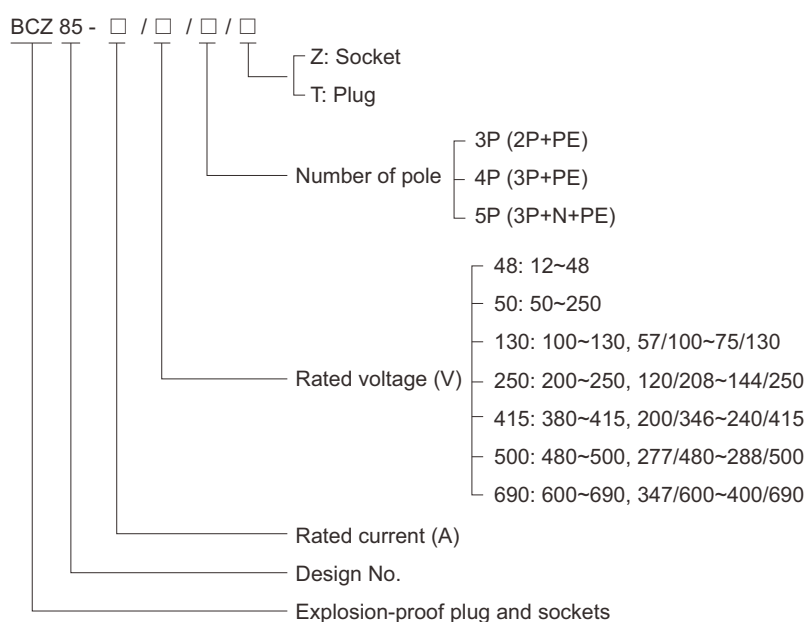
Class I, Division 1, Groups A, B, C, D

Four enclosure types; Four current ratings (16A, 32A, 63A, 125A); 3P, 4P or 5P.

Only the switch in the socket cut off can plug be pulled out, power after inserting the plug.

Copper-free Aluminium Alloy enclosure, powder coated surface.

■ Catalogue number logic



Zones 1&2; 21&22

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BCZ85 Series Explosion-proof Plugs and Sockets

Selection table

Version	Current (A)	Voltage (V)	Number of pole	Schematic diagram	h	Colour	Ordering code	Weight (kg)
BCZ85-16/□/□ 	16(10)	12~48	2P			Violet	30146A	2.60
		50~250				Violet	30146B	2.60
		12~48	2P+PE		12	Violet	30146C	2.60
		50~250			12	Violet	30146D	2.60
		100~130			4	Yellow	30147	2.60
		200~250			6	Blue	30148	2.60
		100~130	3P+PE		4	Yellow	30149	2.60
		200~250			9	Blue	30150	2.60
		380~415			6	Red	30151	2.60
		480~500			7	Black	30152	2.60
		600~690			5	Black	30153	2.60
		57/100~75/130	3P+N+PE		4	Yellow	30154	3.40
		120/208~144/250			9	Blue	30155	3.40
		200/346~240/415			6	Red	30156	3.40
		277/480~288/500			7	Black	30157	3.40
		347/600~400/690			5	Black	30158	3.40
BCZ85-32/□/□ 	32(20)	200~250	2P+PE		6	Blue	30159	3.40
		200~250	3P+PE		9	Blue	30160	3.40
		380~415			6	Red	30161	3.40
		480~500			7	Black	30162	3.40
		600~690	3P+N+PE		5	Black	30163	3.40
		120/208~144/250			9	Blue	30164	3.40
		200/346~240/415			6	Red	30165	3.40
		277/480~288/500			7	Black	30166	3.40
		347/600~400/690			5	Black	30167	3.40
BCZ85-63/□/□ 	63 (50), (60)	200~250	3P+PE		9	Blue	30168	4.50
		380~415			6	Red	30169	4.50
		480~500			7	Black	30170	4.50
		600~690			5	Black	30171	4.50
		200/346~240/415	3P+N+PE		6	Red	30172	4.50
		277/480~288/500			7	Black	30173	4.50
BCZ85-125/□/□ 	125(100)	200~250	3P+PE		9	Blue	30174	20.0
		380~415			6	Red	30175	20.0
		480~500			7	Black	30176	20.0
		600~690			5	Black	30177	20.0
		200/346~240/415	3P+N+PE		6	Red	30178	20.0
		277/480~288/500			7	Black	30179	20.0

Technical data

Explosion-proof plug and sockets BCZ85-16/□/□

Explosion protection

Global (IECEX)

Gas and dust

Europe (ATEX)

Gas and dust

Certificates

Conformity to standards

Enclosure material

Enclosure colour

Exposed fastener

Rated voltage

Rated current

Number of pole

Degree of protection

Internal&external earthing

Ambient temperature

Cable entry of socket

Cable entry of plug

Cable gland (optional)

Cross section of cable

IECEX CNEX 19.0015X

Ex db IIC T6 Gb

Ex tb IIC T80 Db

CNEX 19 ATEX 0023X

Ex II 2 G Ex db IIC T6 Gb

Ex II 2 D Ex tb IIC T80 Db

IECEX; ATEX; CU-TR

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Copper-free Aluminium Alloy, powder coated surface

Window grey (RAL7040)

Stainless steel

Max. 690V AC, Max. 250V DC

10A, 16A

3P (2P+PE), 4P (3P+PE), 5P (3P+N+PE)

IP66

M5/M5

-60 ~+60

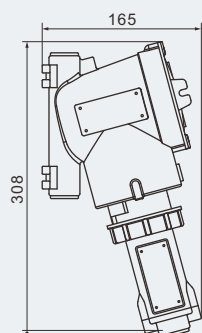
2 x M25 x 1.5(3P/4P), 2 x M32 x 1.5(5P)

1 x M25 x 1.5(3P/4P), 1 x M32 x 1.5(5P)

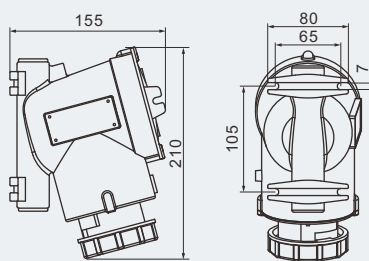
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

2.5~4 mm²

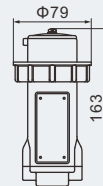
Dimension drawings (all dimensions in mm) - subject to alteration



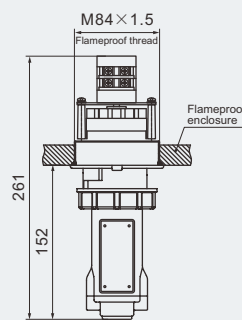
Plug and Sockets



Socket

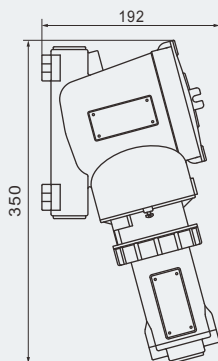


Plug

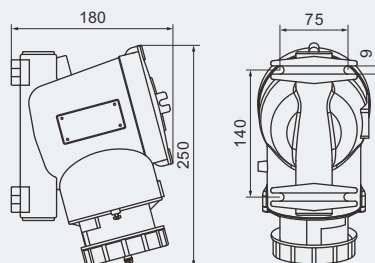
Install on the
flameproof enclosure

BCZ85-16/□/3P

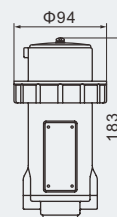
BCZ85-16/□/4P



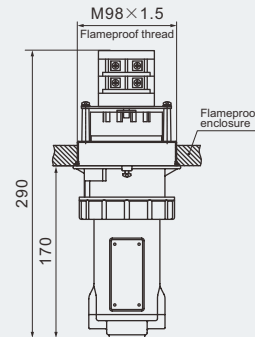
Plug and Sockets



Socket



Plug

Install on the
flameproof enclosure

BCZ85-16/□/5P

Plugs and Sockets

BCZ85 Series Explosion-proof Plugs and Sockets

Technical data

Explosion-proof plug and sockets BCZ85-32/□/□

Explosion protection

Global (IECEx)	IECEx CNEX 19.0015X
Gas and dust	Ex db IIC T6 Gb
	Ex tb IIIC T80 Db
Europe (ATEX)	CNEX 19 ATEX 0023X
Gas and dust	Ex II 2 G Ex db IIC T6 Gb
	Ex II 2 D Ex tb IIIC T80 Db

Certificates

IECEx; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-31

Enclosure material

Copper-free Aluminium Alloy, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

20A, 32A

Number of pole

3P (2P+PE), 4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66

Internal&external earthing

M5/M5

Ambient temperature

-60 ~+60

Cable entry of socket

2 x M32 x 1.5

Cable entry of plug

1 x M32 x 1.5

Cable gland (optional)

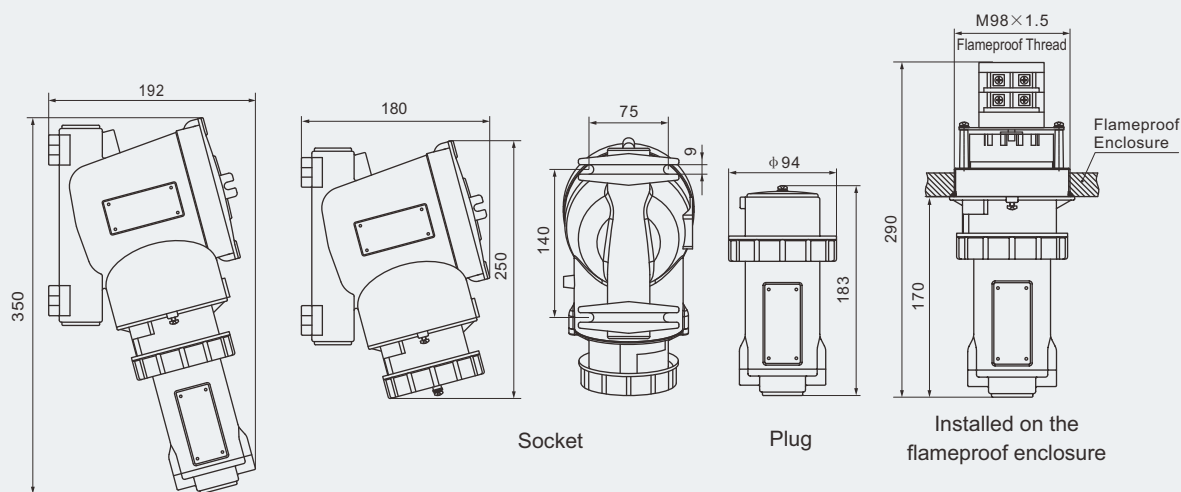
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

Cross section of cable

4~6 mm²



Dimension drawings (all dimensions in mm) - subject to alteration



Plug and Sockets

BCZ85-32/□/□

Plugs and Sockets

BCZ85 Series Explosion-proof Plugs and Sockets

Technical data

Explosion-proof plug and sockets BCZ85-63/□/□

Explosion protection

Global (IECEX)

IECEX CNEX 19.0021X

Gas and dust

Ex db IIC T6 Gb

Ex tb IIIC T80 Db

Europe (ATEX)

CNEX 19 ATEX 0030X

Gas and dust

Ex II 2 G Ex db IIC T6 Gb

Ex II 2 D Ex tb IIIC T80 Db

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Enclosure material

Copper-free Aluminium Alloy, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

50A, 60A, 63A

Number of pole

4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66

Internal&external earthing

M6/M8

Ambient temperature

-60 ~+60

Cable entry of socket

2 x M40 x 1.5

Cable entry of plug

1 x M50 x 1.5

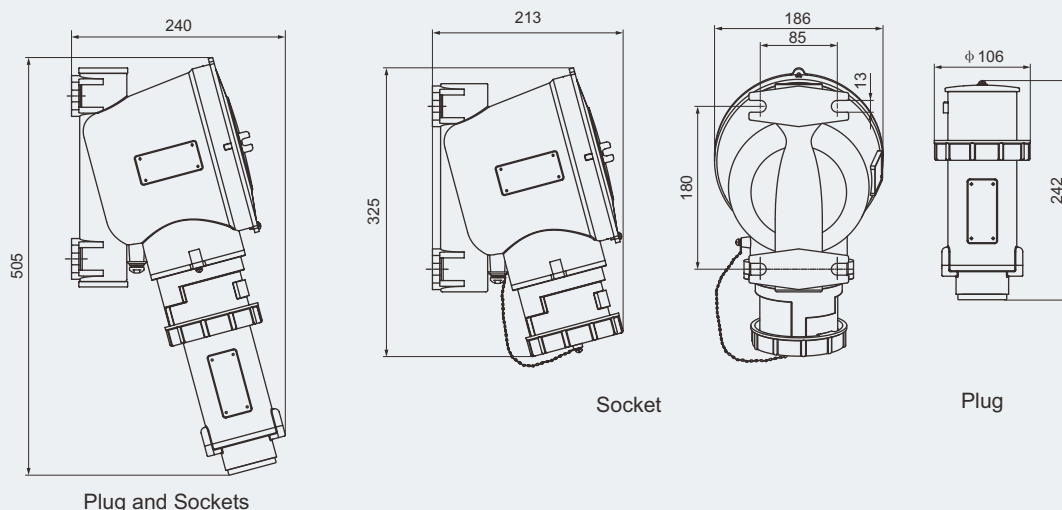
Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

Cross section of cable

10~16 mm²

Dimension drawings (all dimensions in mm) - subject to alteration



BCZ85-63/□/□

Plugs and Sockets

BCZ85 Series Explosion-proof Plugs and Sockets

Technical data

Explosion-proof plug and sockets BCZ85-125/□/□

Explosion protection

Global (IECEx)	IECEx CNEX 19.0020X
Gas and dust	Ex db IIC T6 Gb Ex tb IIIC T80 Db
Europe (ATEX)	CNEX 19 ATEX 0029X
Gas and dust	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T80 Db

Certificates

IECEx; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-31

Enclosure material

Copper-free Aluminium Alloy, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

100A, 125A

Number of pole

4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66

Internal&external earthing

M6/M8

Ambient temperature

-60 ~+58

Cable entry of socket

1 x M63 x 1.5

Cable entry of plug

1 x M50 x 1.5

Cable gland (optional)

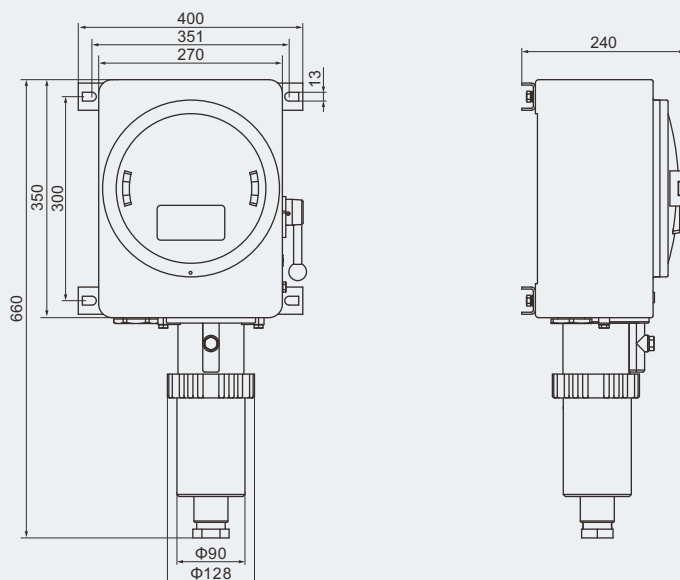
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

Cross section of cable

25~35 mm²



Dimension drawings (all dimensions in mm) - subject to alteration



BCZ85-125/□/□