

Junction Boxes

BHD91 Series Explosion-proof Junction Boxes



Explosion protection to

-CENELEC

-IEC

-NEC

Can be used in

Zone 1 and Zone 2

Zone 21 and Zone 22

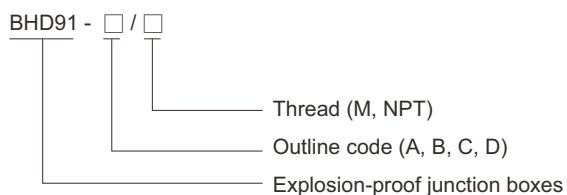
Class I, Zone 1 and Zone 2

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

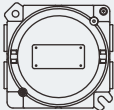
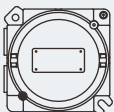
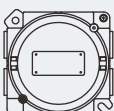
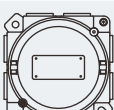
Four types: A, B, C, D

Copper-free Aluminium Alloy enclosure, powder coated surface.

■ Catalogue number logic



Selection table

Type /Ordering code	Schematic diagram	Top	Bottom	Left	Right	Weight (kg)
BHD91-A/M20×1.5	Type A 	-	-	2-M□×1.5	2-M□×1.5	1.20
BHD91-A/M25×1.5		-	-	2-M□×1.5	2-M□×1.5	1.20
BHD91-A/M32×1.5		-	-	2-M□×1.5	2-M□×1.5	1.20
BHD91-B/M20×1.5	Type B 	-	2-M□×1.5	2-M□×1.5	-	1.20
BHD91-B/M25×1.5		-	2-M□×1.5	2-M□×1.5	-	1.20
BHD91-B/M32×1.5		-	2-M□×1.5	2-M□×1.5	-	1.20
BHD91-C/M20×1.5	Type C 	-	2-M□×1.5	2-M□×1.5	2-M□×1.5	1.20
BHD91-C/M25×1.5		-	2-M□×1.5	2-M□×1.5	2-M□×1.5	1.20
BHD91-C/M32×1.5		-	2-M□×1.5	2-M□×1.5	2-M□×1.5	1.20
BHD91-D/M20×1.5	Type D 	2-M□×1.5	2-M□×1.5	2-M□×1.5	2-M□×1.5	1.20
BHD91-D/M25×1.5		2-M□×1.5	2-M□×1.5	2-M□×1.5	2-M□×1.5	1.20
BHD91-D/M32×1.5		2-M□×1.5	2-M□×1.5	2-M□×1.5	2-M□×1.5	1.20

Zones 1&2; 21&22

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Technical data

Explosion-proof junction boxes BHD91-□/□

Explosion protection

Global (IECEX)	IECEX CQM 15.0061X
Gas and dust	Ex db IIC T6 Gb
	Ex tb IIIC T80 Db IP66
Europe (ATEX)	CNEX 16 ATEX 0006
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; UL

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-31
UL 1203, UL 508, UL 50, UL 50E, UL 508A
CSA C22.2 No.30, CSA C22.2 No.25, CSA C22.2 No.14
CSA C22.2 No.94.1, CSA C22.2 No.94.2

Enclosure material

Copper-free Aluminium Alloy, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 500V AC

Rated current and Terminal data

Cross section	2.5mm ²	4mm ²	6mm ²
Rated current	24A	32A	41A
Terminal number	12	10	8

Degree of protection

IP66

Ambient temperature

-60 ~+60

Internal&external earthing

M5/M5

Cable entries

Standard M□ x 1.5 plug
NPT□ plug on request

Cable gland(optional)

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



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

