

## Junction Boxes BHD51 Series Explosion-proof Junction Boxes



Explosion protection to

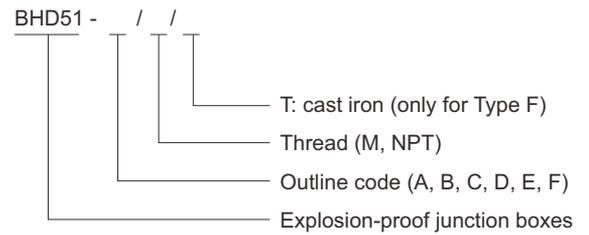
- CENELEC
- IEC
- NEC

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
- Six types: A, B, C, D, E, F.

Type A, B, C, D, E in Copper-free Aluminium Alloy only;  
Type F in Copper-free Aluminium Alloy or Cast Iron.

### Catalogue number logic



### Selection table

Type/Ordering code	Schematic diagram	Weight (kg)	
BHD51-A/M20 x 1.5	Type A 	0.70	
BHD51-A/M25 x 1.5			
BHD51-B/M20 x 1.5	Type B 	0.70	
BHD51-B/M25 x 1.5			
BHD51-C/M20 x 1.5	Type C 	0.70	
BHD51-C/M25 x 1.5			
BHD51-D/M20 x 1.5	Type D 	0.70	
BHD51-D/M25 x 1.5			
BHD51-E/M20 x 1.5	Type E 	0.70	
BHD51-E/M25 x 1.5			
BHD51-F/M25 x 1.5	Type F 	Copper-free Aluminium Alloy	0.80
		Cast Iron	2.10

# Zones 1&2; 21&22

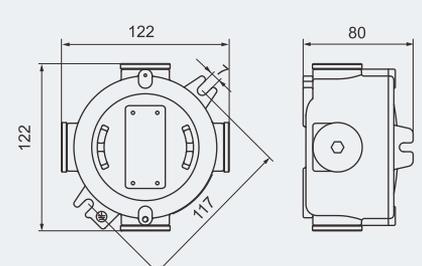
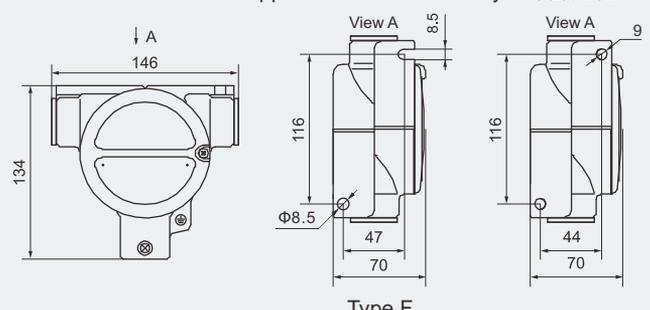
## Junction Boxes

### BHD51 Series Explosion-proof Junction Boxes

Technical data	
<b>Explosion-proof junction boxes</b> BHD51-□/□/□	
<b>Explosion protection</b>	IECEX CQM 11.0022X
Global (IECEX)	Ex db IIC T6 Gb
Gas and dust	Ex tb IIIC T80 Db
Europe (ATEX)	CNEX 21 ATEX 0001X
Gas and dust	⊕ II 2 G Ex db IIC T6 Gb
	⊕ II 2 D Ex tb IIIC T80 Db
<b>Certificates</b>	IECEX; ATEX
<b>Conformity to standards</b>	EN 60079-0, EN 60079-1, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-31
<b>Enclosure material</b>	Copper-free Aluminium Alloy or cast iron, powder coated surface
<b>Enclosure colour</b>	Yellow (RAL1021)
<b>Exposed fastener</b>	Stainless steel
<b>Rated current</b>	20A
<b>Rated voltage</b>	Max. 690V AC 50/60Hz, Max. 500V DC
<b>Terminal data</b>	
Number	6 terminals (Type A-E), 4 terminals (Type F)
Cross section of cable	0.2~2.5mm <sup>2</sup>
<b>Degree of protection</b>	IP66
<b>Ambient temperature</b>	-60 ~+60
<b>Internal&amp;external earthing</b>	M5
<b>Cable entries</b>	Standard M□ x 1.5 plug NPT□ plug on request
<b>Cable gland(optional)</b>	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.
<b>Main application</b>	Type A-E are used for wiring or branching; Type F is used as accessory for pendant pole type or ceiling type light fittings.

Terminals					
Description	Illustration	Number	Ordering code	Weight (kg)	Note
Terminal		6	30008	0.10	For Type A, B, C, D, E
Terminal block		4	30009	0.05	For Type F



Dimension drawings (all dimensions in mm) - subject to alteration	
 <p>Type A, B, C, D, E</p>	<p>Copper-free Aluminium Alloy    Cast iron</p>  <p>Type F</p>
<b>Application instruction:</b>	
<ol style="list-style-type: none"> <li>1. Type F (Copper-free Aluminium Alloy) is used as mounting accessory for light fittings HRD61-150, BDD81, HRD95 etc.</li> <li>2. Type F (cast iron) is used as mounting accessory for light fittings HRD61-250, HRD61-400, etc.</li> </ol>	