

1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 0, Zone 1 and Zone 2, Zone 21 and Zone 22
- This series of products have 4 types explosion protection (Ex eb, Ex ia, Ex ib and Ex tb IIC), which can meet various requirements.
- GRP enclosure.
- There are 7 types of enclosure, easy to customize the current, terminals, size and direction of entry according to customer requirements.
- Stainless steel exposed fastener, anti dropping structure, easy installation and maintenance.



D: Top inlet
L: Left inlet
R: Right inlet
X: Bottom inlet



Electric heating bracket type (K)

2 Nomenclature

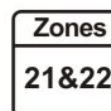
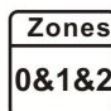
HLBH03-□□/□□D□□L□□X□□R□□□

K-Electric heating bracket type (Optional)
Inlet Nos./ Thread specification
Right inlet
Inlet Nos./ Thread specification
Bottom inlet
Inlet Nos./ Thread specification
Left inlet
Inlet Nos./ Thread specification
Top inlet
Rated current
Terminal quantity
Enclosure code (01,02,03,04,05,06,06.1,07)
ia/ib (Optional)
Design No.
Explosion-proof terminal box

Note: Please confirm the quantity, specification, and direction (position) of cable entry holes, if that is needed; No cable gland as default when delivery, which is supplied by users.

3 Technical Parameter

Ex marking	Gas	Ex II 2 G Ex eb IIC T6/T5 Gb	Ex eb IIC T6/T5 Gb				Ex e IIC T6/T5/T4 Gb				
		Ex II 1 G Ex ia IIC T6 Ga	Ex ia IIC T6 Ga				Ex ia IIC T6 Ga				
		Ex II 2 G Ex ib IIC T6 Gb	Ex ib IIC T6 Gb				Ex ib IIC T6 Gb				
	Dust	Ex II 2 D Ex tb IIIC T80/T95°C Db	Ex tb IIIC T80/T95°C Db				Ex tD A21 IP66 T80/T95/T130°C				
Conformity to standards		IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079-31 EN 60079-0, EN 60079-7, EN 60079-11, EN 60079-31 GB3836.1,GB3836.3,GB3836.4,GB12476.1,GB12476.5									
Enclosure material		GRP (Polyester resin, glass fibre reinforced), anti-static									
Enclosure color		Black									
Brand of terminal		International brand									
Exposed fastener		Stainless steel									
Rated voltage	Ex e,Ex tb	Max 690V AC, 220V DC									
	Ex i, Ex tb	Max AC/DC36V									
Rated current		1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	50mm ²		
	Ex e,Ex tb	-	10A	16A	25A	40A	50A	100A	142A		
	Ex i, Ex tb	5A	-	-	-	-	-	-	-	-	
Degree of protection		IP66									
Ambient temperature	Ex e,Ex tb	-40℃~+40/55℃									
	Ex i, Ex tb	-40℃~+50/60/65℃									
Cable gland		HLBM-□ is recommended, refer to Page D/07~D/21 for details.									



4 Selection Table (Dimensions in mm)

The maximum terminal cross-section is 35mm², and the maximum quantity of terminals that can be installed are shown in the table below.

Enclosure specification	Guideway×Terminal (specification and quantity)								Outlet direction	Cable gland quantity								Weight (kg)
	1.5 ²	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	50 ²		M16	M20	M25	M32	M40	M50	M63	—	
	UK2N	UK3N	UK5N	UK6N	UK10N	UK16N	UK35N	UK50N		—	G15	G20	G25	G32	G40	G50	G70	
01#	1X12	1X12	1X10	1X8	—	—	—	—	D/X	3	3	2	1	1	—	—	—	1.2
									L/R	2	2	2	1	1	—	—	—	
02#	1X25	X25	1X20	1X15	—	—	—	—	D/X	7	5	3	3	2	1	—	—	1.5
									L/R	2	2	2	1	1	—	—	—	
03#	1X30	1X30	1X27	1X20	1X15	1X13	—	—	D/X	8	6	4	3	2	—	—	—	2.3
									L/R	6	4	4	3	2	—	—	—	
04#	1X49	1X49	1X41	1X31	1X24	1X20	—	—	D/X	12	10	8	4	3	3	—	—	3.3
	2X39	2X40	2X31	2X18	—	—	—	—	L/R	7	5	3	3	2	2	—	—	
05#	1X49	1X49	1X41	1X31	1X24	1X20	1X10	—	D/X	20	14	12	7	5	3	3	—	4.3
	2X40	2X40	2X31	2X18	—	—	—	—	L/R	11	8	7	4	3	2	1	—	
06/06.1#	1X102	1X51	1X43	1X32	1X26	1X21	1X17	1X8	D/X	20	14	12	7	5	3	3	—	6.1 / 6.7
	2X73	2X49	2X41	2X31	2X24	2X20	—	—	L/R	16	11	9	6	3	2	2	—	
07#	1X102	1X102	1X86	1X64	1X52	1X42	1X34	1X16	D/X	32	22	18	12	6	4	4	—	11.3
	2X102	2X98	2X82	2X62	2X48	2X40	—	—	L/R	20	14	12	7	5	3	3	—	

5 Outline and Installation Dimension (Dimensions in mm)

