

HLBH02-S Series Explosion-proof Terminal Box

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
- Stainless steel enclosure, three types of explosion protection(Ex eb, Ex ia, Ex tb IIIC), which can meet the requirements of various places.
- There are 19 types of enclosure specifications, the current, the number of terminals, the size and direction of the entry can be customized upon request.
- Stainless steel exposed fastener. anti dropping structure. easy installation and maintenance.



2 Nomenclature

HLBH02-S □/□/□D□/□L□/□X□/□R□/□□

— ia / ib (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, ... 18, 19)

– Stainless steel

Design No.

- Explosion-proof terminal box

D: Top inlet

L: Left inlet

R: Right inlet

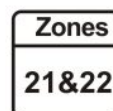
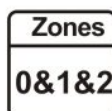
X: Bottom inlet

3 Technical Parameter

Ex marking	Gas		Ex eb IIC T6/T5/T4 Gb	Ex e IIC T6/T5/T4 Gb
			Ex ia IIC T6 Ga	Ex ia IIC T6 Ga
			Ex ia IIC T6 Gb	Ex ia IIC T6 Gb
	Dust		Ex tb IIIC T80/T95/T130°C Db	Ex tD A21 IP66 T80/T95/T130°C Db

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.

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		Stainless steel							
Brand of terminal		International brand							
Exposed fastener		Stainless steel							
Rated voltage	Ex e, Ex tb	Max. 690V AC, 250V 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℃~+40/45/55/60℃							
Cable gland		HLBM-□ is recommended, refer to page D/07~D/20 for details.							

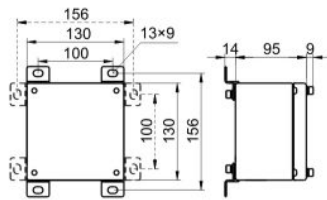


4 Selection Table (Dimensions in mm)

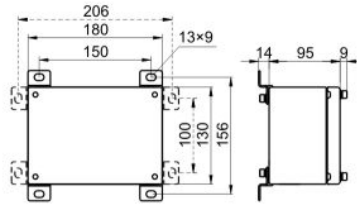
The maximum terminal cross-section is 35mm², and the maximum quantity of terminals that can be installed are shown in the table below.

Enclosure specification	Guideway×Terminal (specification and quantity)						Outlet direction	Available maximum cable entries quantity							Weight (kg)
	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²		M16	M20	M25	M32	M40	M50	M63	
	UK3N	UK5N	UK6N	UK10N	UK16N	UK35N									
	SAK2.5EN	SAK4EN	SAK6EN	SAK10EN	SAK16EN	SAK35EN									
01							D/X	8	6	5	3	2	1	—	1.3
							L/R	8	6	5	3	2	1	—	
02							D/X	12	10	8	4	3	2	—	1.9
							L/R	8	6	5	3	2	1	—	
03							D/X	16	12	10	4	3	3	—	3.1
							L/R	10	8	8	3	2	2	—	
04							D/X	16	12	10	4	3	3	—	4.0
							L/R	16	12	10	4	3	3	—	
05/06							D/X	18/36	16/21	14/21	5/10	4/8	4/6	--/4	4.5 /5.5
							L/R	12/24	10/15	8/12	3/6	3/4	2/3	--/2	
07/08							D/X	18/36	16/21	14/21	5/10	4/8	4/6	--/4	6.5 /7.5
							L/R	16/32	14/21	12/18	5/10	4/6	3/5	--/3	
09/10							D/X	24/48	20/30	18/27	7/14	5/10	4/8	--/5	8.5 /9.5
							L/R	18/36	16/21	14/21	5/10	4/8	4/6	--/4	
11/12/13							D/X	24/48/66	20/30/50	18/27/35	7/14/28	5/10/15	4/8/12	--/5/8	10.8 /11.8 /12.8
							L/R	24/48/66	20/30/50	18/27/35	7/14/28	5/10/15	4/8/12	--/5/8	
14/15							D/X	48/92	40/60	36/54	14/28	10/20	8/10	--/8	17.5 /18.5
							L/R	24/48	20/30	18/27	7/14	5/10	4/8	--/5	
16/17							D/X	138/161	100/120	83/102	42/56	30/40	20/25	15/20	21/22
							L/R	66/77	50/60	27/54	28/30	15/20	12/16	8/10	
18/19							D/X	92/161	60/120	54/102	28/56	20/40	10/25	8/20	29/31
							L/R	92/161	60/120	54/102	28/56	20/40	10/25	8/20	

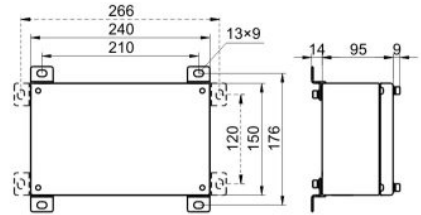
5 Outline and Installation Dimension (Dimensions in mm)



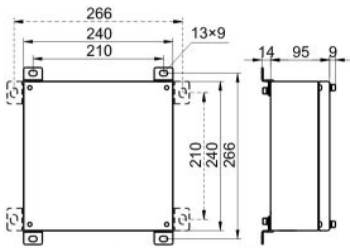
Enclosure 01



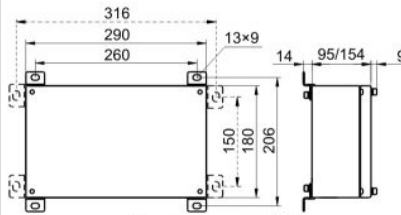
Enclosure 02



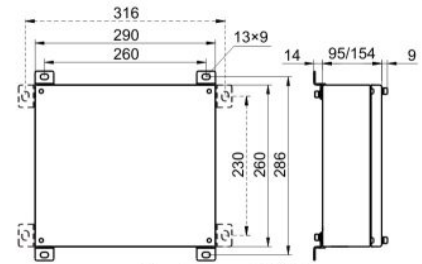
Enclosure 03



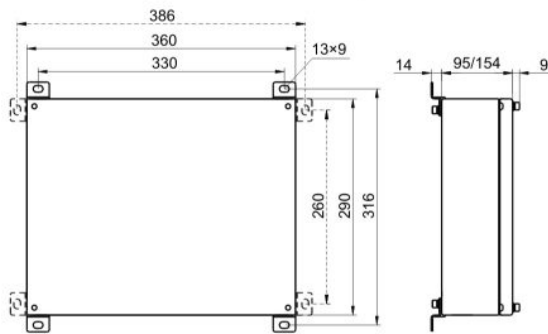
Enclosure 04



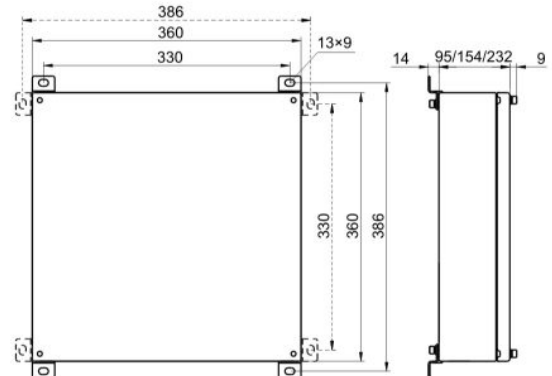
Enclosure 05/06



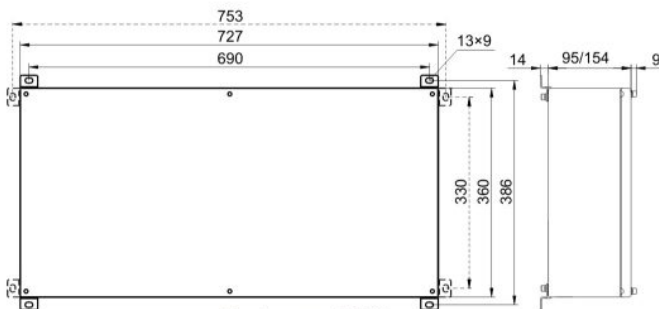
Enclosure 07/08



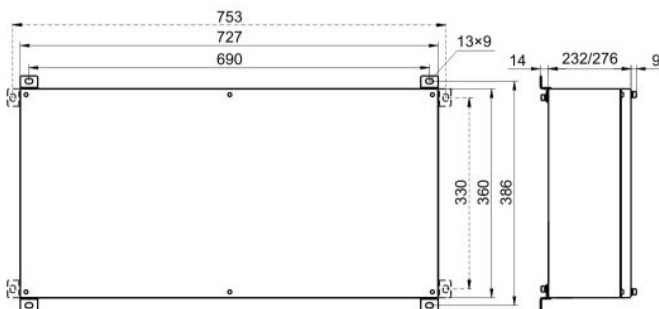
Enclosure 09/10



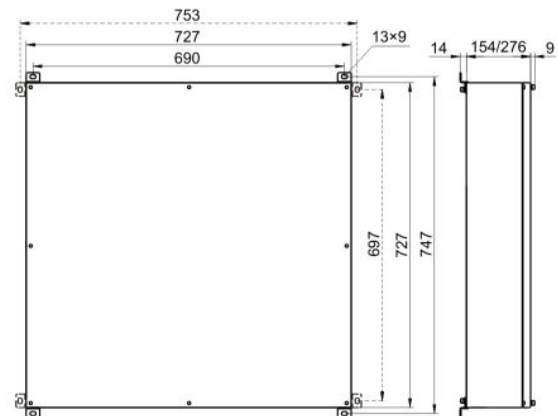
Enclosure 11/12/13



Enclosure 14/15



Enclosure 16/17



Enclosure 18/19