

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 Part Number

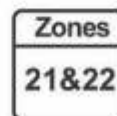
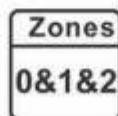
HLBH 03- □□/□/□□□/□□□/□□□/□□□□

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 Specifications

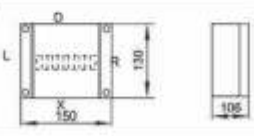
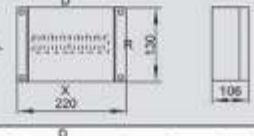
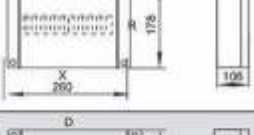
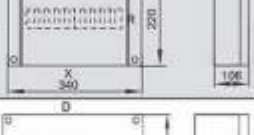
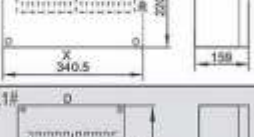
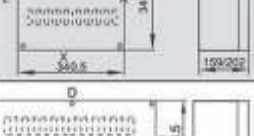
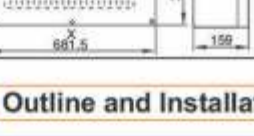
Ex marking	Gas	Ⓔ II 2 G Ex eb IIC T6/T5 Gb	Ex eb IIC T6/T5 Gb	Ex e IIC T6/T5/T4 Gb					
		Ⓔ II 1 G Ex ia IIC T6 Ga	Ex ia IIC T6 Ga	Ex ia IIC T6 Ga					
		Ⓔ II 2 G Ex ib IIC T6 Gb	Ex ib IIC T6 Gb	Ex ib IIC T6 Gb					
	Dust	Ⓔ II 2 D Ex tb IIIC T80/T95℃Db	Ex tb IIIC T80/T95℃Db	Ex tD A21 IP66 T80/T95/T130℃					
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.							



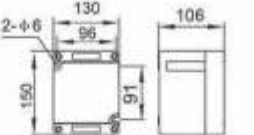
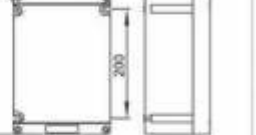
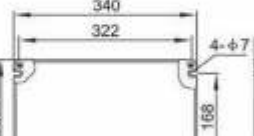
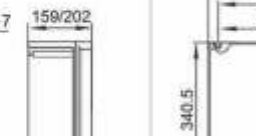
HLBH03- Series Explosion-proof Terminal Box

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	
	SAK15EN	SAK25EN	SAK4EN	SAK6EN	SAK10EN	SAK16EN	SAK35EN	SAK50EN		—	—	—	—	—	—	—	—	
01# 	1X12	1X12	1X10	1X8	—	—	—	—	D/X	3	3	2	1	1	—	—	—	1.2
									L/R	—	2	2	1	1	1	—	—	
02# 	1X25	X25	1X20	1X15	—	—	—	—	D/X	7	5	3	3	2	1	—	—	1.5
									L/R	—	4	3	3	2	1	—	—	
03# 	1X30	1X30	1X27	1X20	1X15	1X13	—	—	D/X	8	6	4	3	2	—	—	—	2.3
									L/R	—	5	4	3	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	—	8	7	4	3	3	—	—	
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	—	12	9	7	4	3	2	2	
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	—	12	9	7	4	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	—	18	12	12	6	6	4	4	

5 Outline and Installation Dimension (Dimensions in mm)

01# 	02# 	03# 	04# 
05# 	06/06.1# 	07# 	

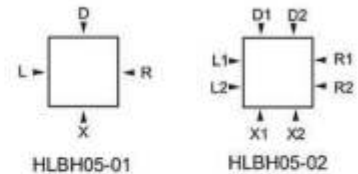
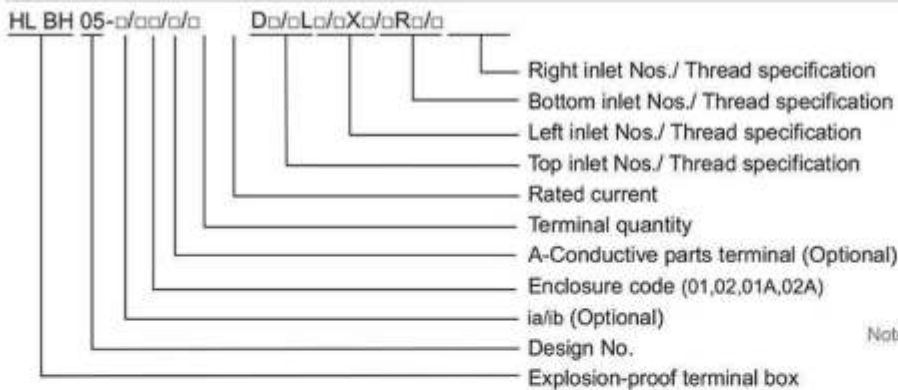
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HLBH05- Series Explosion-proof Terminal Box

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
- This series of products have 4 types explosion protection (Ex eb, Ex ia, Ex ib and Ex tb IIC), which can meet the requirements of various places.
- PA66 enclosure.
- There are two types of enclosure which the current, terminal, size and direction of entry can be customized based on customer requirements.
- Type A: open crimping type terminal in enclosure.
- Type B (Standard): an International brand of terminal will be installed in the enclosure.
- Stainless steel exposed fastener, anti dropping structure, easy installation and maintenance.

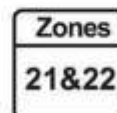
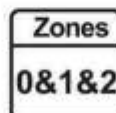
2 Part Number



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 Specifications

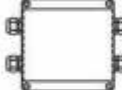
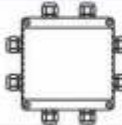
Ex marking	Gas	Ex II 2 G Ex eb IIC T6 Gb	Ex eb IIC T6 Gb	Ex e IIC T6 Gb
		Ex II 1 G Ex ia IIC T6 Ga	Ex ia IIC T6 Ga	Ex ia IIC T6 Ga
		Ex II 2 G Ex ib IIC T6 Gb	Ex ib IIC T6 Gb	Ex ib IIC T6 Gb
	Dust	Ex II 2 D Ex tb IIIC T80℃ Db	Ex tb IIIC T80℃ Db	Ex tD A21 IP66 T80℃
Conformity to standards		IEC 60079-0, 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		Nylon (PA66)		
Enclosure color		Black		
Brand of terminal		Type A: open crimping type terminal in enclosure Type B (Standard): International brand		
Exposed fastener		Stainless steel		
Rated voltage	Ex e,Ex tb	Max. 500V AC, 220V DC		
	Ex i, Ex tb	Max. AC/DC36V		
Rated current	Wire diameter	1.5mm ²	2.5mm ²	
	Ex e,Ex tb	10A,12A	10A,12A,20A	
	Ex i, Ex tb	5A	5A	
Degree of protection		IP66		
Ambient temperature	Ex e,Ex tb	-40℃~+45/55/60℃		
	Ex i, Ex tb	-40℃~+45/65℃		
Cable gland		M20X1.5, M25X1.5, M32X1.5, Cable gland is not matched as standard, please specify if necessary.		



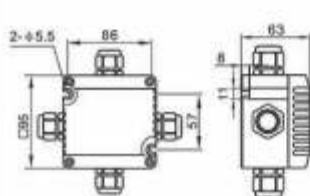
HLBH05- Series Explosion-proof Terminal Box

4 Proposal Example

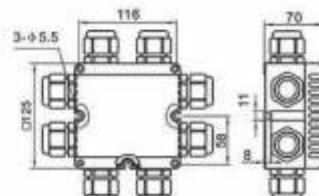
HLBH05-01	Cable entries	Cable outer dia.
	2XM20	$\phi 6 \sim \phi 12 \text{mm}$
	2XM25	$\phi 10 \sim \phi 14 \text{mm}$
	3XM20	$\phi 6 \sim \phi 12 \text{mm}$
	3XM25	$\phi 10 \sim \phi 14 \text{mm}$
	4XM20	$\phi 6 \sim \phi 12 \text{mm}$
	4XM25	$\phi 10 \sim \phi 14 \text{mm}$

HLBH05-02	Cable entries	Cable outer dia.
	4XM25	$\phi 10 \sim \phi 14 \text{mm}$
	4XM32	$\phi 13 \sim \phi 19 \text{mm}$
	6XM25	$\phi 10 \sim \phi 14 \text{mm}$
	6XM32	$\phi 13 \sim \phi 19 \text{mm}$
	8XM25	$\phi 10 \sim \phi 14 \text{mm}$
	8XM32	$\phi 13 \sim \phi 19 \text{mm}$

5 Outline and Installation Dimension (Dimensions in mm)



HLBH05-01



HLBH05-02

Type A
Weight: 0.6kgType B
Weight: 0.5kg

HELON Standard Terminal Junction Box for ARMOURED CABLE

* Exe increased safety explosion protected

*Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area

*Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area

* T6 Temperature Class (85° C)

* IP66 Dust & Damp Proof

HEXLON
EXPLOSION - PROOF

Cable Data								
Total Cores Required	Core Size mm ²	No. of Cores per Cable	Cable Outer Diameter		Box Size #	Cable Gland Size	ATEX Group	
Min.	Max.	mm	mm					
1.5mm² Cable Core Size								
10	1.50	10	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-040-01/A-10/10
15	1.50	10	6.50	10.50	#02	M20B	HLBH03-02	HLW-A20231025-041-01/A-10/15
20	1.50	10	6.50	10.50	#02	M20B	HLBH03-02	HLW-A20231025-041-01/A-10/20
25	1.50	10	6.50	10.50	#02	M20B	HLBH03-02	HLW-A20231025-041-01/A-10/25
30	1.50	10	6.50	10.50	#03	M20B	HLBH03-03	HLW-A20231025-042-01/A-10/30
40	1.50	10	6.50	10.50	#04	M20B	HLBH03-04	HLW-A20231025-043-01/A-10/40
50	1.50	10	6.50	10.50	#04	M20B	HLBH03-04	HLW-A20231025-043-01/A-10/50
60	1.50	10	6.50	10.50	#05	M20B	HLBH03-05	HLW-A20231025-043-01/A-10/60
70	1.50	10	6.50	10.50	#05	M20B	HLBH03-05	HLW-A20231025-043-01/A-10/70
80	1.50	10	6.50	10.50	#05	M20B	HLBH03-05	HLW-A20231025-043-01/A-10/80
90	1.50	10	6.50	10.50	#05	M20B	HLBH03-05	HLW-A20231025-043-01/A-10/90
2.5mm² Cable Core Size								
3	2.50	3	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-040-01/A-03/03
4	2.50	4	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-040-01/A-04/04
5	2.50	5	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-040-01/A-05/05
10	2.50	5	6.50	10.50	#01	M20C	HLBH03-01	HLW-A20231025-040-01/A-05/10
15	2.50	5	6.50	10.50	#02	M20C	HLBH03-02	HLW-A20231025-041-01/A-05/15
20	2.50	5	6.50	10.50	#02	M20C	HLBH03-02	HLW-A20231025-041-01/A-05/20
25	2.50	5	6.50	10.50	#02	M20C	HLBH03-02	HLW-A20231025-041-01/A-05/25
30	2.50	5	6.50	10.50	#03	M20C	HLBH03-03	HLW-A20231025-042-01/A-05/30
35	2.50	5	6.50	10.50	#04	M20C	HLBH03-04	HLW-A20231025-043-01/A-05/35
40	2.50	5	6.50	10.50	#04	M20C	HLBH03-04	HLW-A20231025-043-01/A-05/40
4mm² Cable Core Size								
3	4.00	3	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-046-01/A-03/03
4	4.00	4	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-046-01/A-04/04
5	4.00	5	6.50	10.50	#01	M20B	HLBH03-01	HLW-A20231025-046-01/A-05/05
10	4.00	5	6.50	10.50	#01	M20C	HLBH03-01	HLW-A20231025-046-01/A-05/10
15	4.00	5	6.50	10.50	#02	M20C	HLBH03-02	HLW-A20231025-047-01/A-05/15
20	4.00	5	6.50	10.50	#02	M20C	HLBH03-02	HLW-A20231025-047-01/A-05/20
25	4.00	5	6.50	10.50	#02	M20C	HLBH03-03	HLW-A20231025-047-01/A-05/25
30	4.00	5	6.50	10.50	#04	M20C	HLBH03-04	HLW-A20231025-049-01/A-05/30
35	4.00	5	6.50	10.50	#04	M20C	HLBH03-04	HLW-A20231025-049-01/A-05/35
40	4.00	5	6.50	10.50	#04	M20C	HLBH03-04	HLW-A20231025-049-01/A-05/40
6mm² Cable Core Size								
3	6.00	3	6.50	10.50	01#	M20C	HLBH03-01	HLW-A20231025-052-01/A-03/03
4	6.00	4	6.50	10.50	01#	M20C	HLBH03-01	HLW-A20231025-052-01/A-04/04
5	6.00	5	6.50	10.50	01#	M20C	HLBH03-01	HLW-A20231025-052-01/A-05/05
10	6.00	5	6.50	10.50	02#	M20C	HLBH03-02	HLW-A20231025-053-01/A-05/10
15	6.00	5	6.50	10.50	02#	M20C	HLBH03-02	HLW-A20231025-053-01/A-05/15
20	6.00	5	6.50	10.50	03#	M20C	HLBH03-03	HLW-A20231025-054-01/A-05/20
25	6.00	5	6.50	10.50	04#	M20C	HLBH03-04	HLW-A20231025-055-01/A-05/25
30	6.00	5	6.50	10.50	04#	M20C	HLBH03-04	HLW-A20231025-055-01/A-05/30

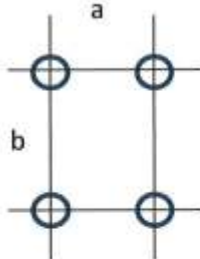
HEXLON Standard Terminal Junction Box for ARMOURED CABLE

- * Exe increased safety explosion protected
- * Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area
- * Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area
- * T6 Temperature Class (85° C)
- * IP66 Dust & Damp Proof

HEXLON
EXPLOSION-PROOF

Cable Data							ATEX Group	
Total Cores Required	Core Size mm ²	No. of Cores per Cable	Cable Outer Diameter		Box Size #	Cable Gland Size		
			Min. mm	Max. mm				
3	10.00	3	10.00	1X3	02#	M20C	HLBH03-02	HLW-A20231025-058-01/A-03/03
4	10.00	4	10.00	1X4	02#	M25C	HLBH03-02	HLW-A20231025-058-01/A-04/04
5	10.00	5	10.00	1X5	02#	M25C	HLBH03-02	HLW-A20231025-058-01/A-05/05
10	10.00	5	10.00	1X10	03#	M25C	HLBH03-03	HLW-A20231025-058-01/A-05/10
15	10.00	5	10.00	1X15	03#	M25C	HLBH03-03	HLW-A20231025-058-01/A-05/15
20	10.00	5	10.00	1X20	04#	M25C	HLBH03-04	HLW-A20231025-059-01/A-05/20
3	16.00	3	16.00	1X3	02#	M25C	HLBH03-02	HLW-A20231025-062-01/A-03/03
4	16.00	4	16.00	1X4	02#	M25C	HLBH03-02	HLW-A20231025-062-01/A-04/04
5	16.00	5	16.00	1X5	02#	M32C	HLBH03-02	HLW-A20231025-062-01/A-05/05
10	16.00	5	16.00	1X10	03#	M32C	HLBH03-03	HLW-A20231025-062-01/A-05/10
15	16.00	5	16.00	1X15	04#	M32C	HLBH03-04	HLW-A20231025-063-01/A-05/15
20	16.00	5	16.00	1X20	04#	M32C	HLBH03-04	HLW-A20231025-063-01/A-05/20

Nickel Plated Brass Screw Plug + Nut		Reference
M20x1.5		9HT RPM.C-M20-C-OM
M25x1.5		9HT RPM.C-M25-C-OM
M32x1.5		9HT RPM.C-M32-C-OM
M40x1.5		9HT RPM.C-M40-C-OM

Box Size	Length mm	Width mm	Height mm	Mounting Data			Reference
				a	b		
#01	150	130	106				HLBH03-01#
#02	220	130	106				HLBH03-02#
#03	260	178	106				HLBH03-03#
#04	340	220	106				HLBH03-04#
#05	340	220	159				HLBH03-05#
#06	340	340	159				HLBH03-06#
#07	651	340	159				HLBH03-07#

Exe Armoured Cable Gland				Reference		
	Cable Outer Diameter					
	Min.	Max.				
	9.50	16.00				
	12.50	20.50				
	17.00	26.00				
M25C	17.00	26.00		HLBM-13 M20X1.5B		
	12.50	20.50		HLBM-13 M20X1.5C		
	17.00	26.00		HLBM-13 M25X1.5C		
M32C	19.00	25.50		HLBM-13 M32X1.5C		
Exe Non-Armoured Cable Gland				Reference		
Type	Cable Outer Diameter					
	Min.	Max.				
M20A	6.00	12.00				9HT RSKM-M20A-EX-LC-OM
M25A	13.00	18.00				9HT RSKM-M25A-EX-LC-OM
M32A	18.00	25.00		9HT RSKM-M32A-EX-LC-OM		
M40A	22.00	32.00		9HT RSKM-M40A-EX-LC-OM		

HEXLON Standard Terminal Junction Box for NON-ARMOURED CABLE

* Exe increased safety explosion protected

*Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area

*Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area

* T6 Temperature Class (85° C)

* IP66 Dust & Damp Proof

HEXLON
EXPLOSION PROOF

Cable Data								
Total Cores Required	Core Size mm2	No. of Cores per Cable	Cable Outer Diameter		Box Size #	Cable Gland Size	ATEX Group	
			Min. mm	Max. mm				
1.5mm2 Cable Core Size								
10	1.50	10	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-040-01/A-10/10-9HT
15	1.50	10	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-041-01/A-10/15-9HT
20	1.50	10	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-041-01/A-10/20-9HT
25	1.50	10	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-041-01/A-10/25-9HT
30	1.50	10	13.00	18.00	#03	M25A	HLBH03-03	HLW-A20231025-042-01/A-10/30-9HT
40	1.50	10	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-043-01/A-10/40-9HT
50	1.50	10	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-043-01/A-10/50-9HT
60	1.50	10	13.00	18.00	#05	M25A	HLBH03-05	HLW-A20231025-043-01/A-10/60-9HT
70	1.50	10	13.00	18.00	#05	M25A	HLBH03-05	HLW-A20231025-043-01/A-10/70-9HT
80	1.50	10	13.00	18.00	#05	M25A	HLBH03-05	HLW-A20231025-043-01/A-10/80-9HT
90	1.50	10	13.00	18.00	#05	M25A	HLBH03-05	HLW-A20231025-043-01/A-10/90-9HT
2.5mm2 Cable Core Size								
3	2.50	3	6.50	10.50	#01	M20A	HLBH03-01	HLW-A20231025-040-01/A-03/03-9HT
4	2.50	4	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-040-01/A-04/04-9HT
5	2.50	5	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-040-01/A-05/05-9HT
10	2.50	5	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-040-01/A-05/10-9HT
15	2.50	5	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-041-01/A-05/15-9HT
20	2.50	5	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-041-01/A-05/20-9HT
25	2.50	5	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-041-01/A-05/25-9HT
30	2.50	5	13.00	18.00	#03	M25A	HLBH03-03	HLW-A20231025-042-01/A-05/30-9HT
35	2.50	5	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-043-01/A-05/35-9HT
40	2.50	5	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-043-01/A-05/40-9HT
4mm2 Cable Core Size								
3	4.00	3	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-046-01/A-03/03-9HT
4	4.00	4	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-046-01/A-04/04-9HT
5	4.00	5	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-046-01/A-05/05-9HT
10	4.00	5	13.00	18.00	#01	M25A	HLBH03-01	HLW-A20231025-046-01/A-05/10-9HT
15	4.00	5	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-047-01/A-05/15-9HT
20	4.00	5	13.00	18.00	#02	M25A	HLBH03-02	HLW-A20231025-047-01/A-05/20-9HT
25	4.00	5	13.00	18.00	#02	M25A	HLBH03-03	HLW-A20231025-048-01/A-05/25-9HT
30	4.00	5	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-049-01/A-05/30-9HT
35	4.00	5	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-049-01/A-05/35-9HT
40	4.00	5	13.00	18.00	#04	M25A	HLBH03-04	HLW-A20231025-049-01/A-05/40-9HT
6mm2 Cable Core Size								
3	6.00	3	13.00	18.00	01#	M25A	HLBH03-01	HLW-A20231025-052-01/A-03/03-9HT
4	6.00	4	13.00	18.00	01#	M25A	HLBH03-01	HLW-A20231025-052-01/A-04/04-9HT
5	6.00	5	18.00	25.00	01#	M32A	HLBH03-01	HLW-A20231025-052-01/A-05/05-9HT
10	6.00	5	18.00	25.00	02#	M32A	HLBH03-02	HLW-A20231025-053-01/A-05/10-9HT
15	6.00	5	18.00	25.00	02#	M32A	HLBH03-02	HLW-A20231025-053-01/A-05/15-9HT
20	6.00	5	18.00	25.00	03#	M32A	HLBH03-03	HLW-A20231025-054-01/A-05/20-9HT
25	6.00	5	18.00	25.00	04#	M32A	HLBH03-04	HLW-A20231025-055-01/A-05/25-9HT
30	6.00	5	18.00	25.00	04#	M32A	HLBH03-04	HLW-A20231025-055-01/A-05/30-9HT

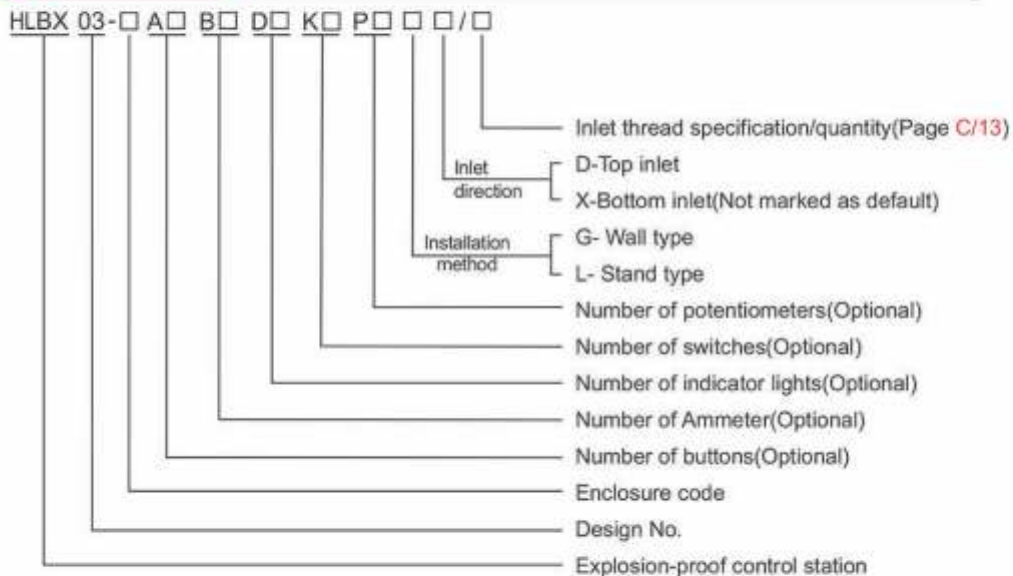
HLBX03- Series Explosion-proof Control Station

1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2,
 - Zone 21 and Zone 22
- There are 5 types of enclosures, assembled with explosion-proof components (control buttons, switches, indicator lights, potentiometers, ammeters, etc.) and terminal blocks. The components are rail-type structure, which can be quickly installed and convenient for installation and maintenance.
- The emergency stop button can be equipped with anti-misoperation mechanism and padlock by requirements.
- Stainless steel exposed fasteners, anti-drop structure, convenient for installation and maintenance.

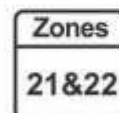
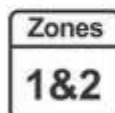


2 Part Number



Note:

1. Example: HLBX03-19A2B1GXM25X1.5, 19# enclosure, which with two control buttons, one ammeter, wall mounting type, one bottom inlet M25X1.5;
2. The specific requirements of the components are based on the drawings;
3. Button code, switch code, signal lamp code, ammeter code see P B/99;
4. The rain shade is customizable by requirements.



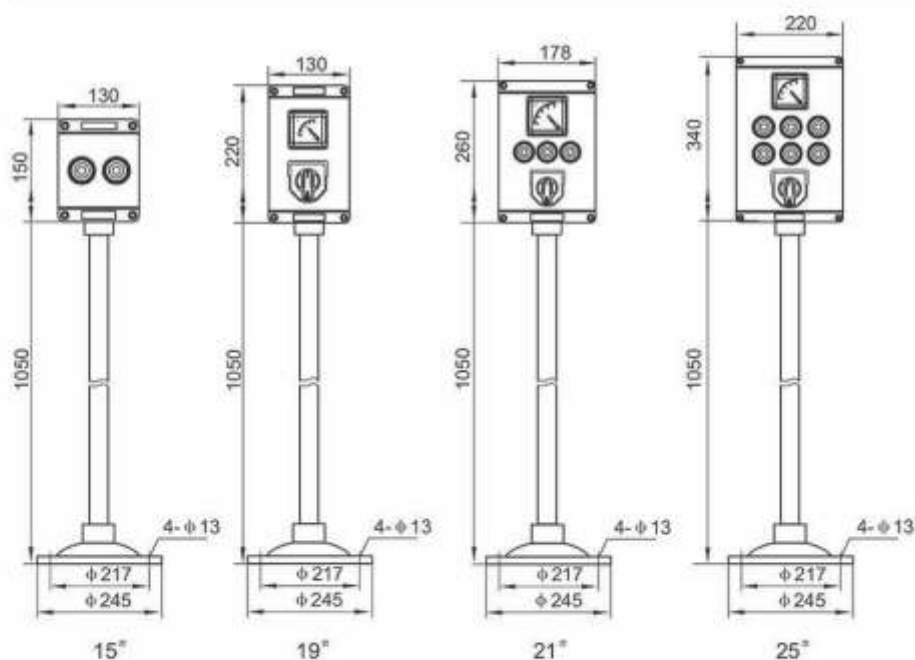
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HLBX03- Series Explosion-proof Control Station

6 Height of electrical accessories

Electrical accessories	Frame of ammeter	Standard button	Double Button	Button with key	Self-lock button	Mushroom button	Mushroom button with key	Indicator light	Illuminated button	Control switch S1, S3	Control switch S2	potentiometer (single turn)	potentiometer multi turn)
h(mm)	11	20.5	21.5	38(62)	40	32	45(69)	23.5	20.5	40	42	27	40.5

7 Outline and Installation Dimension (stand type)(Dimensions in mm)



8 Accessories list

Item	Picture	Purchase code	Weight (kg)
Stand type connection part		1.01.901.00007	0.3
Pole		1.01.901.00006	3.4
Basis		1.01.901.00005	0.6

3 Specifications

Ex marking	Gas	Ex II2 G Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex d e IIC T6 Gb
	Dust	Ex II2 D Ex tb IIIC T80℃ Db	Ex tb IIIC T80℃ Db	Ex tD A21 IP66 T80℃
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 GB3836.1,GB3836.2,GB3836.3,GB12476.1,GB12476.5		
Enclosure materials	Enclosure	GRP (Polyester resin, glass fibre reinforced), antistatic		
	Rain shade	Bended steel plate surface powder coated (black color) or stainless steel 304/316, please note when needed.		
Color of enclosure		Black		
Exposed fasteners		Stainless steel exposed fasteners, anti-drop structure		
Rated voltage		Maximum 415VAC, 250V DC		
Rated current		6A、10A、16A		
Wire diameter		≤6A: 0.75~2.5mm ²		
		6A<I≤10A: 1.5~2.5mm ²		
		10A<I≤16A: 2.5mm ²		
Degree of protection		IP66		
Ambient temperature		-40℃~+40/45/50/55/60/65/70℃		
Components		HL0101 explosion-proof control button, refer to P B/127 for technical parameters		
		HL0102 explosion-proof indicator, refer to P B/135 for technical parameters		
		HL0101-S explosion-proof control switch, refer to P B/141 for technical parameters		
		HL0109 explosion-proof ammeter, refer to P B/125 for technical parameters		
Installation method		Wall type and stand type		
Cable entries	Wall type	M16X1.5~M63X1.5, G1/2~G2 Without cable entry device as default, please note if which is needed.		
	Stand type	G1 only		

4 Components and accessories



HL0101- Control button



HL0101-A2 Double button



HL0102- Signal lamp



HL0101-A Illuminated control buttons



HL0109- Ammeter



HL0155 Switch



φ38 operating handle

φ65 operating handle
(with padlock available)

Square operating handle

Note:

1. HL0109-48 occupies 2 components position;
2. φ65 and square operating handle occupies 2 components position;
3. HL0155 switch, HL0109-72 occupies 2~3 components position.

HEXLON**HLBX03- Series Explosion-proof Control Station****5 Selection Table**(Dimensions in mm)

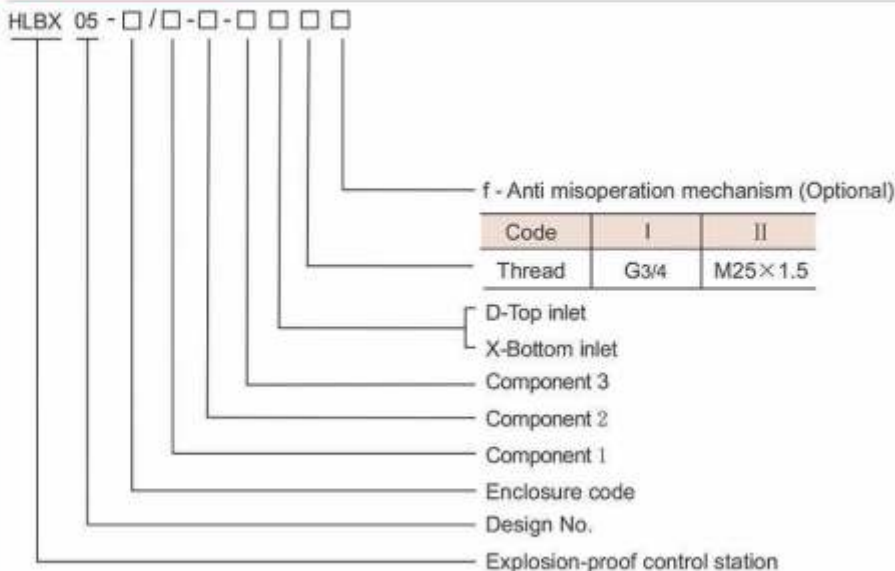
Outline	Component layout
15# 	 1501 1502 1503 1504 1505 1506 1507
19# 	 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912
21# 	 2101 2102 2103 2104 2105 2106
25# 	 2501 2502 2503 2504 2505 2506
29# 	 2901 2902 2903 2904

1 Application and Features

- Explosion protection
 - IECEX (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Three type enclosure sizes, built-in explosion-proof components (control button, control switch, signal lamp, potentiometer, ammeter, etc.). The components is rail mounting type, which can be installed on the guide rail quickly and accurately, easy for installation and maintenance.
- Component arrangement can be combined upon request.
- Emergency stop can be equipped with anti misoperation mechanism and padlock (If need).
- Stainless steel exposed fastener, anti dropping structure, easy for installation and maintenance.



2 Part Number

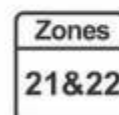
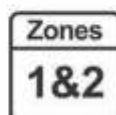


Note:

1. Built-in components model meanings please refer to Part G Ex components;
2. Rain shade can be customized upon request.

Model example:

HLBX05-07/R01F-A1/I/02FXII: 07# enclosure, equipped with one signal lamp, AC/DC 12-36V, and one push button, 1NO+1NC, with marking "I", bottom inlet M25X1.5.



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HLBX05-Series Explosion-proof Control Station

3 Specifications

Ex marking	Gas	Ex II 2 G Ex db eb IIC T6 Gb	Ex db eb IIC T6 Gb	Ex d e IIC T6 Gb
	Dust	Ex II 2 D Ex tb IIIC T80°C Db	Ex tb IIIC T80°C Db	Ex tD A21 IP66
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 GB3836.1, GB3836.2, GB3836.3, GB12476.1, GB12476.5		
Enclosure material	Enclosure	GRP (Polyester resin, glass fibre reinforced), antistatic		
	Rain shade	Bended steel plate surface powder coated (black color) or stainless steel 304/316, please note when needed		
Enclosure color		Black		
Enclosure material		Stainless steel, anti-drop structure.		
Rated voltage		Max 415V AC, 250V DC		
Rated current		6A, 10A, 16A		
Wire diameter		$\leq 6A: 0.75 \sim 2.5mm^2$		
		$6A < I \leq 10A: 1.5 \sim 2.5mm^2$		
		$10A < I \leq 16A: 2.5mm^2$		
Degree of protection		IP66		
Ambient temperature		$-40^{\circ}C \sim +40/45/50/55/60/65/70^{\circ}C$		
Built-in components		HL0101 explosion-proof control button, See P B/127 for technical parameters		
		HL0102 explosion-proof signal lamp, See P B/135 for technical parameters		
		HL0101-S explosion-proof control switch, See P B/141 for technical parameters		
		HL0109 explosion-proof ammeter, See P B/125 for technical parameters		
Installation method		Hanging type		
Cable entries	Hanging type	M25X1.5, G3/4 The cable gland is not available when delivery, please indicate if necessary.		

4 Components and Accessories



HL0101-Control button



HL0101-A2 Two control button



HL0102-Signal lamp

HL0101-A Control button
with signal lamp

HL0109-Ammeter



φ38 Operating handle

φ65
Operating handle
(padlock available)

Square operating handle

Note: 1. Installation area of 1 pcs HL0109-48 is same as 2 pcs buttons;
2. Installation area of 1 pcs φ65 operating handle or 1 pcs square operating handle is same as 2 pcs buttons.

5 Selection table (Dimensions in mm)

Outline	Component layout
03# 	 301 302 303 304 305 306
07# 	 701 702 703 704 705 706 707 708 709
11# 	 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113

6 Outline and Installation Dimension (Dimensions in mm)

 03#	 07#	 11#
---------	---------	---------

Component accessories	h (mm)
Meter frame	11
Standard button	20.5
Double button	21.5
Button with key	38(62)
Emergency stop button with self-locking	40
Mushroom head button	32
Mushroom head button with key	45(69)

Component accessories	h (mm)
Indicator light	23.5
Illuminated control button	20.5
Control switch S1, S3	40
Control switch S2	42
Potentiometer (single-turn)	27
Potentiometer (multi-turn)	40.5
—	—

HEXLON Standard Control Station for Armoured Cable

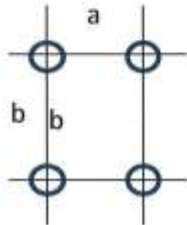
- * Exe increased safety explosion protected
- * Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area
- * Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area
- * T6 Temperature Class (85° C)
- * IP66 Dust & Damp Proof

HEXLON
EXPLOSION-PROOF

Control Station Type	Color	Contact		Lamp Volt.	Box Type	ATEX Group		
		Configuration						
		NO	NC					
Exe IIC Single Pushbutton Control Station								
Green Pushbutton Spring Return SB		1	1	-	03#	HLBX05-03A1G	HLW-A20231025-011-01/A	
Red Pushbutton Spring Return SB		1	1				HLW-A20231025-012-01/A	
One Emg Stop Turn To Reset SB		1	1				HLW-A20231025-013-01/A	
One Mushroom head Spring Return SB		1	1				HLW-A20231025-014-01/A	
One Mushroom head Key SB		1	1				HLW-A20231025-015-01/A	
Exe IIC One Signal Indicator Control Station								
Signal Indicator12 - 36V ac/dc HG		-	-	24 vacdc	03#	HLBX05-03A1G	HLW-A20231025-016-01/A	
							HLW-A20231025-019-01/A	
							HLW-A20231025-022-01/A	
							HLW-A20231025-025-01/A	
Signal Indicator48 - 127V ac/dc HG		-	-	110 vacdc	03#	HLBX05-03A1G	HLW-A20231025-017-01/A	
							HLW-A20231025-020-01/A	
							HLW-A20231025-023-01/A	
							HLW-A20231025-026-01/A	
Signal Indicator 220 - 415V ac HG		-	-	230 vac	03#	HLBX05-03A1G	HLW-A20231025-018-01/A	
							HLW-A20231025-021-01/A	
							HLW-A20231025-024-01/A	
							HLW-A20231025-012701/A	
Exe IIC Two Pushbutton Control Station								
Pushbutton SB1		1	1	-	07#	HLBX05-07/A2G	HLW-A20231025-031-01/A	
E.STOP Pushbutton SB2		1	1					
Exe IIC Two Pushbuttons Control Station with E. STOP								
Pushbutton SB1		1	1	-	07#	HLBX05-07/A2G	HLW-A20231025-032-01/A	
E.STOP Pushbutton SB2		1	1					
Exe IIC Two Pushbuttons Control Station with Mushroom Pushbutton Spring Return								
Pushbutton SB1		1	1	-	07#	HLBX05-07/A2G	HLW-A20231025-032X-01/A	
Mushroom Spring Return SB2		1	1					

Control Station Type	Length mm	Width mm	Height mm	a mm	b mm
Single Control Unit 03#	107	85	73		
Two Control Units 07#	139	85	73		
Three Control Units 11#	185	85	73		

Mounting
Dimensions





Single
Control
Unit



Three
Control
Units

HEXON Standard Control Station

* Exe increased safety explosion protected

*Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area

*Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area

* T6 Temperature Class (85° C)

* IP66 Dust & Damp Proof

HEXLON
EXPLOSION - PROOF

Control Station Type	Color	Contact		Lamp Volt.	Box Type	ATEX Group	
		Configuration					
		NO	NC				
Exe IIC Three Pushbuttons Control Station IP66							
3 Pushbuttons		1	1	-	11#	HLBX05-11A2D1G	HLW-A20231025-033-01/A
		1	1	-			
		1	1	-			
Exe IIC Two Pushbuttons + One E. STOP Control Station							
Pushbutton SB1		1	0	-	11#	HLBX05-11A2D1G	HLW-A20231025-033X-01/A
Pushbutton SB2		1	0	-			
E.STOP Pushbutton SB3		0	1	-			
Exe IIC Two Pushbuttons + One Red Signal Indicator							
Red Signal Indicator 24vacdc HG1		-	-	24v	11#	HLBX05-11A2D1G	HLW-A20231025-037-01/A
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Red Signal Indicator 110vacdc HG1		-	-	110v	11#	HLBX05-11A2D1G	HLW-A20231025-038-01/A
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Signal Indicator 230vacdc HD1		-	-	230v	11#	HLBX05-11A2D1G	HLW-A20231025-039-01/A
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Exe IIC Two Pushbuttons + One Green Signal Indicator							
Green Signal Indicator 24vacdc HG1		-	-	24v	11#	HLBX05-11A2D1G	HLW-A20231025-034-01/A
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Green Signal Indicator 110vacdc HG1		-	-	110v	11#	HLBX05-11A2D1G	HLW-A20231025-035-01/A
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Green Signal Indicator 230vacdc HG1		-	-	230v	11#	HLBX05-11A2D1G	HLW-A20231025-036-01/A
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			

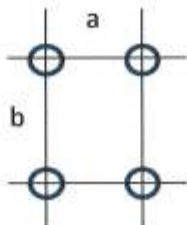
Base Mount Contact Blocks			Reference		
Contact Blocks 1NO			HL0101-IV		
Contact Block 1NC			HL0101-V		
Contact Block 1NO/1NC			HL0101-I		
Base Mount Lamp Base	Lamp Voltage				Reference
	Min.	Max	Type		
Lamp Base - White LED*	12	36	ac/dc		HL0102-01
Lamp Base - White LED*	48	127	ac/dc		HL0102-02
Lamp Base - White LED*	220	415	ac		HL0102-03
Lamp Base - Red LED	12	36	ac/dc		HL0102-01R
Lamp Base - Red LED	48	127	ac/dc		HL0102-02R
Lamp Base - Red LED	220	415	ac	HL0102-03R	

HEXLON Standard Control Station for NON-Armoured Cable

- * Exe increased safety explosion protected
- * Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area
- * Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area
- * T6 Temperature Class (85°C)
- * IP66 Dust & Damp Proof

HEXLON
EXPLOSION PROOF

Control Station Type	Color	Contact		Lamp Volt.	Box Type	ATEX Group	
		Configuration					
		NO	NC				
Exe IIC Single Pushbutton Control Station							
Green Pushbutton Spring Return SB		1	1	-	03#	HLBX05-03A1G	HLW-A20231025-011-01/A-9HT
Red Pushbutton Spring Return SB		1	1				HLW-A20231025-012-01/A-9HT
One Emg Stop Turn To Reset SB		1	1				HLW-A20231025-013-01/A-9HT
One Mushroom head Spring Return SB		1	1				HLW-A20231025-014-01/A-9HT
One Mushroom head Key SB		1	1				HLW-A20231025-015-01/A-9HT
Exe IIC One Signal Indicator Control Station							
Signal Indicator12 - 36V ac/dc HG		-	-	24 vacdc	03#	HLBX05-03A1G	HLW-A20231025-016-01/A-9HT
							HLW-A20231025-019-01/A-9HT
							HLW-A20231025-022-01/A-9HT
							HLW-A20231025-025-01/A-9HT
							HLW-A20231025-015-01/A-9HT
Signal Indicator48 - 127V ac/dc HG		-	-	110 vacdc	03#	HLBX05-03A1G	HLW-A20231025-017-01/A-9HT
							HLW-A20231025-020-01/A-9HT
							HLW-A20231025-023-01/A-9HT
							HLW-A20231025-026-01/A-9HT
							HLW-A20231025-015-01/A-9HT
Signal Indicator 220 - 415V ac HG		-	-	230 vac	03#	HLBX05-03A1G	HLW-A20231025-018-01/A-9HT
							HLW-A20231025-021-01/A-9HT
							HLW-A20231025-024-01/A-9HT
							HLW-A20231025-012701/A-9HT
							HLW-A20231025-015-01/A-9HT
Exe IIC Two Pushbutton Control Station							
Pushbutton SB1		1	1	-	07#	HLBX05-07/A2G	HLW-A20231025-031-01/A-9HT
E.STOP Pushbutton SB2		1	1				
Exe IIC Two Pushbuttons Control Station with E. STOP							
Pushbutton SB1		1	1	-	07#	HLBX05-07/A2G	HLW-A20231025-032-01/A-9HT
E.STOP Pushbutton SB2		1	1				
Exe IIC Two Pushbuttons Control Station with Mushroom Pushbutton Spring Return							
Pushbutton SB1		1	1	-	07#	HLBX05-07/A2G	HLW-A20231025-032X-01/A-9HT
Mushroom Spring Return SB2		1	1				

Control Station Type	Length mm	Width mm	Height mm	a mm	b mm	Mounting Dimensions
Single Control Unit 03#	107	85	73			
Two Control Units 07#	139	85	73			
Three Control Units 11#	185	85	73			
						Single Control Unit Three Control Units

HEXLON Standard Control Station

- * Exe increased safety explosion protected
- * Electrical apparatus & enclosure suitable for use in Zone 2 Hazardous Area
- * Electrical apparatus & enclosure suitable for use in Group IIC (acetylene) hazardous Area
- * T6 Temperature Class (85° C)
- * IP66 Dust & Damp Proof

HEXLON
EXPLOSION PROOF

Control Station Type	Color	Contact		Lamp Volt.	Box Type	ATEX Group	
		Configuration					
		NO	NC				
Exe IIC Three Pushbuttons Control Station IP66							
3 Pushbuttons		1	1	-	11#	HLBX05-11A2D1G	HLW-A20231025-033-01/A-9HT
		1	1	-			
		1	1	-			
Exe IIC Two Pushbuttons + One E. STOP Control Station							
Pushbutton SB1		1	0	-	11#	HLBX05-11A2D1G	HLW-A20231025-033X-01/A-9HT
Pushbutton SB2		1	0	-			
E.STOP Pushbutton SB3		0	1	-			
Exe IIC Two Pushbuttons + One Red Signal Indicator							
Red Signal Indicator 24vacdc HG1		-	-	24v	11#	HLBX05-11A2D1G	HLW-A20231025-037-01/A-9HT
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Red Signal Indicator 110vacdc HG1		-	-	110v	11#	HLBX05-11A2D1G	HLW-A20231025-038-01/A-9HT
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Signal Indicator 230vacdc HD1		-	-	230v	11#	HLBX05-11A2D1G	HLW-A20231025-039-01/A-9HT
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Exe IIC Two Pushbuttons + One Green Signal Indicator							
Green Signal Indicator 24vacdc HG1		-	-	24v	11#	HLBX05-11A2D1G	HLW-A20231025-034-01/A-9HT
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Green Signal Indicator 110vacdc HG1		-	-	110v	11#	HLBX05-11A2D1G	HLW-A20231025-035-01/A-9HT
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			
Green Signal Indicator 230vacdc HG1		-	-	230v	11#	HLBX05-11A2D1G	HLW-A20231025-036-01/A-9HT
Pushbutton SB1		1	1	-			
Pushbutton SB2		1	1	-			

Base Mount Contact Blocks			Reference	
Contact Blocks 1NO			HL0101-IV	
Contact Block 1NC			HL0101-V	
Contact Block 1NO/1NC			HL0101-I	
Base Mount Lamp Base	Lamp Voltage		Reference	
	Max	Type		
Lamp Base - White LED*	36	ac/dc	HL0102-01	
Lamp Base - White LED*	127	ac/dc	HL0102-02	
Lamp Base - White LED*	415	ac	HL0102-03	
Lamp Base - Red LED	36	ac/dc	HL0102-01R	
Lamp Base - Red LED	127	ac/dc	HL0102-02R	
Lamp Base - Red LED	220	415	ac	HL0102-03R