

HEXLON

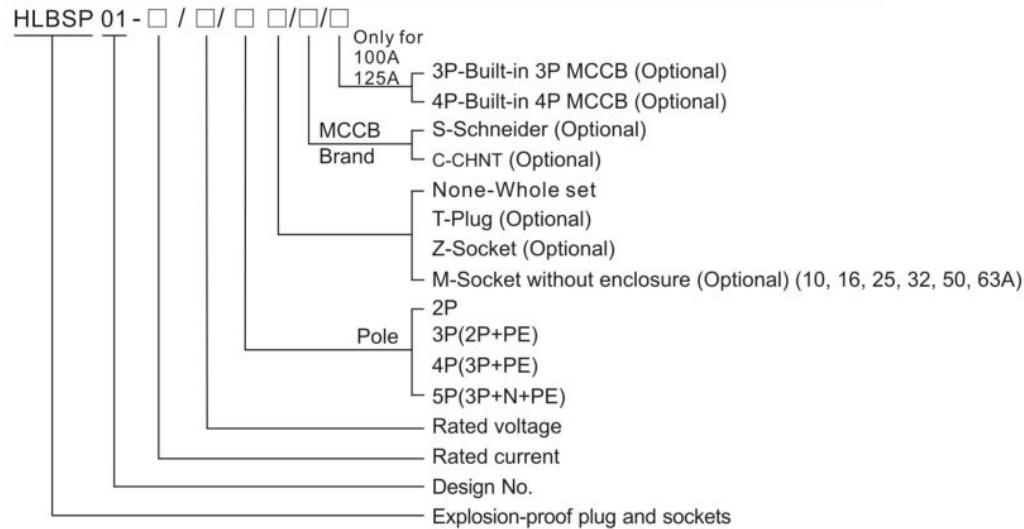
HLBSP01-Series Explosion-proof Plug and Sockets

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
- Flame-proof type enclosure, four types of enclosure. eight kinds of current classes 10A, 16A, 25A, 32A, 50A, 63A, 100A, 125A, and four kinds of pole numbers 2P, 3P, 4P, 5P.
- Reliable interlocking function, the plug can be pulled out only after the power switch is off, and the power switch can be on only after the plug is inserted into the cavity.
- Contact performance of the plug is reliable. The plug sleeve in the socket has an elastic shutter spring sleeve, which not only makes the plug self-cleaning but also ensures small contact resistance and low-temperature rise. At the same time, it also reduces the required insertion and extraction force to the minimum. The design of shutter spring sleeve ensures the normal function of plug and socket and permanent self-cleaning.
- This model includes a timer with different working voltages, set to different colors to avoid mistaken insertion.



2 Nomenclature



Flame-proof thread type cover
Easy to install and disassemble



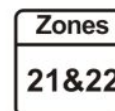
Stainless steel nameplate
Clear and fine letter



Different working voltage product
with different indication color



Fix the dust cover with stainless
steel chain
Prevent falling off
Protect contact copper rod and
flame-proof joint



3 Technical Parameter

Ex marking	Gas	 II 2 G Ex db IIC T6 Gb		Ex db IIC T6 Gb	Ex db IIC T6 Gb
	Dust	 II 2 D Ex tb IIIC T80°C Db		Ex tb IIIC T80°C Db	Ex tD A21 IP66 T80°C
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-31 GB3836.1,GB3836.2,GB12476.1,GB12476.5			
Enclosure material		Aluminum alloy enclosure, power coated surface,industrial gray with dark lines texture(RAL7035)			
Exposed fastener		Stainless steel			
Rated voltage		24,36V DC(10、16A)			
		20~50V AC,100~130V AC, 200~250V AC, 380~415V AC, 480~500V AC, 600~690V AC			
Rated current		10A, 16A, 25A, 32A, 50A, 63A,100A, 125A			
Poles		2P(2P+PE)、3P(2P+PE)、4P(3P+PE)、5P(3P+N+PE)			
Frequency		50Hz / 60Hz			
Degree of protection		IP66			
Ambient temperature		10、16、25、32、50、63A: -60℃~-+45℃, -60℃~-+65℃(Please specify when ordering) 100、125A: -60℃~-+50℃			
Cable outer diameter(mm)	Rated current	10、16A	25、32A	50、63A	100、125A
	Wire diameter	2.5~4mm ²	4~6mm ²	10~16mm ²	25~35mm ²
	Weight (kg)	2.2	3.3	6.6	25.2

4 主要技术参数

Rated current (A)	Rated voltage (V)	Pole	Schematic diagram	h	Color	Outlet and Inlet thread	Cable outer dia. (mm)
10、16	DC24	2P		-	Purple	Plug: 1-M25×1.5 1-NPT3/4 Socket: 2-M25×1.5 2-NPT3/4	φ 9 ~ φ 14
	DC36			-	White		
	AC20~25	2P+PE		12	Purple		
	AC40~50			12	Purple		
	AC100~130			4	Yellow		
	AC200~250			6	Blue		
	AC100~130	3P+PE		4	Yellow		
	AC200~250			9	Blue		
	AC380~415			6	Red		
	AC480~500			7	Black		
	AC600~690	3P+N+PE		5	Black	Plug: 1-M32×1.5 1-NPT1 Socket: 2-M32×1.5 2-NPT1	φ 11 ~ φ 18
	AC57~75			4	Yellow		
	AC100~130			4	Yellow		
	AC120~144			9	Blue		
	AC208~250			9	Blue		
	AC200~240			9	Blue		
	AC346~415			5	Black		
	AC277~288			7	Black		
	AC480~500			7	Black		
	AC347~400			5	Black		
	AC600~690			5	Black		

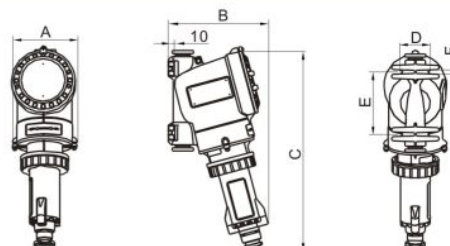
4 Selection Table

Rated current (A)	Rated voltage (V)	Pole	Schematic diagram	h	Color	Outlet and Inlet thread	Cable outer dia. (mm)
25, 32	AC20 ~ 25	2P+PE		12	Purple	Plug: 1-M32X1.5 1-NPT1 Socket: 2-M32X1.5 2-NPT1	φ 11 ~ φ 18
	AC40 ~ 50			12	Purple		
	AC100 ~ 130			4	Yellow		
	AC200 ~ 250			6	Blue		
	AC200 ~ 250	3P+PE		9	Blue		
	AC380 ~ 415			6	Red		
	AC480 ~ 500			7	Black		
	AC600 ~ 690			5	Black		
	AC120 ~ 144	3P+N+PE		9	Blue		
	AC208 ~ 250			9	Blue		
	AC200 ~ 240			9	Blue		
	AC346 ~ 415			5	Black		
	AC277 ~ 288			7	Black		
	AC480 ~ 500			7	Black		
	AC347 ~ 400			5	Black		
	AC600 ~ 690			5	Black		
50, 63	AC200 ~ 250	3P+PE		9	Blue	Plug: 1-M50X1.5 1-NPT11/2 Socket: 2-M40X1.5 2-NPT11/4	φ 17 ~ φ 30
	AC380 ~ 415			6	Red		φ 14 ~ φ 23
	AC480 ~ 500			7	Black		
	AC600 ~ 690			5	Black		
	AC120 ~ 144	3P+N+PE		9	Blue		
	AC208 ~ 250			9	Blue		
	AC200 ~ 240			9	Blue		
	AC346 ~ 415			5	Black		
	AC277 ~ 288			7	Black		
	AC480 ~ 500			7	Black		
	AC347 ~ 400			6	Red		
	AC600 ~ 690			5	Black		
100, 125	AC200 ~ 250	3P+PE		9	Blue	Plug: 1-M50X1.5 1-NPT11/2 Socket: 2-M63X1.5 3-M63X1.5 2-NPT2 3-NPT2	φ 18 ~ φ 33
	AC380 ~ 415			6	Red		φ 24 ~ φ 38
	AC480 ~ 500			7	Black		
	AC600 ~ 690			5	Black		
	AC200 ~ 240	3P+N+PE		6	Red		
	AC346 ~ 415			6	Red		
	AC277 ~ 288			7	Black		
	AC480 ~ 500			7	Black		
	AC347 ~ 400			6	Red		
	AC600 ~ 690			5	Black		

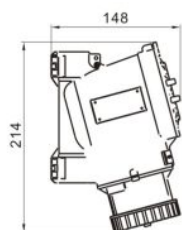
HLBSP01-Series Explosion-proof Plug and Sockets

5 Outline and Installation Dimension (Dimensions in mm)

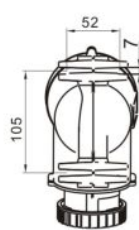
Size (mm) Type	A	B	C	D	E	F
HLBSP01-16	106	164	350	52	105	7
HLBSP01-32	126	195	400	77	140	9
HLBSP01-63	187	238	485	87	180	13
HLBSP01-125	360	256	710	328	315	/



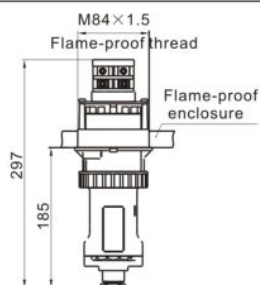
HLBSP01-16 (32)



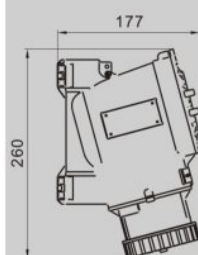
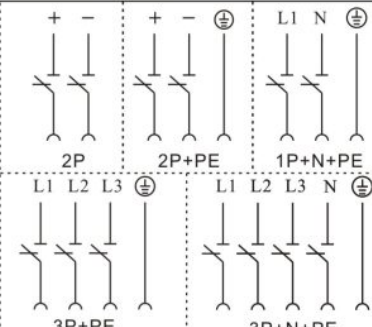
Z-Socket



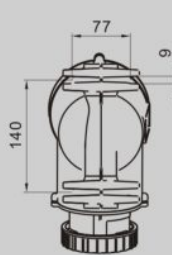
T-Plug



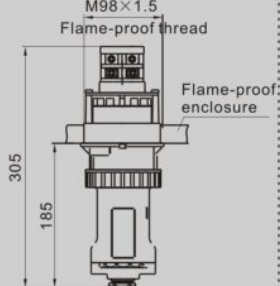
M-Socket without enclosure



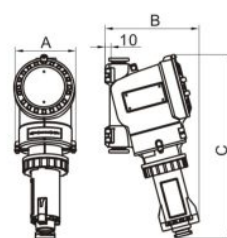
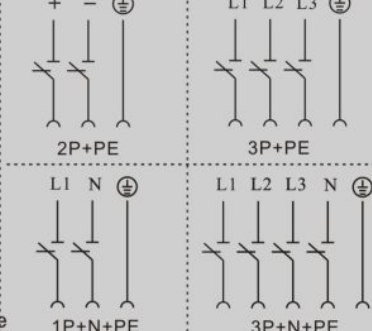
Z-Socket



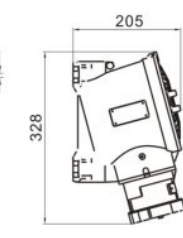
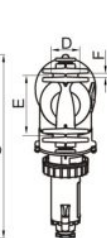
T-Plug



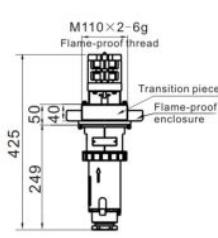
M-Socket without enclosure



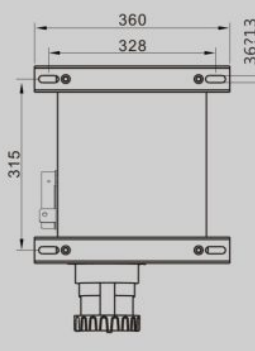
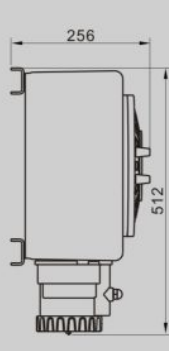
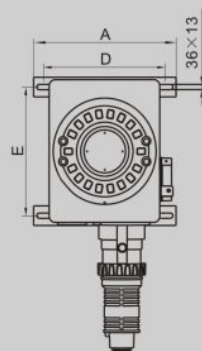
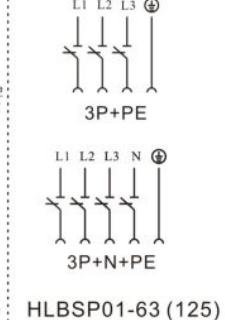
Z-Socket



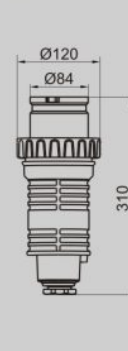
T-Plug



M-Socket without enclosure



Z-Socket



T-Plug

HLBSP01-125