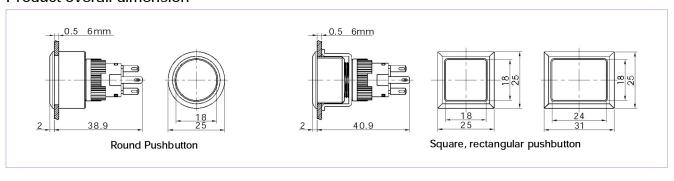
HBDS1Series A type Φ 22 Pushbutton Switch

● HBDS1 Series A Type Φ 22 pushbutton, illuminated pushbutton

Product Cutline

Shape	Contact	Operation type	Model Type	Mark
Round(can be illuminated)		Pilot lamp	HBDS1-AWY-DT/△/▲/◎	
	1NO1NC	Momentary	HBDS1-AWY-11T/△/▲/◎	
ME		Alternate	HBDS1-AWY-11ZT/△/▲/◎	
	2NO2NC	Momentary	HBDS1-AWY-22T/△/▲/◎	
Silvery Frame		Alternate	HBDS1-AWY-22ZT/△/▲/◎	
Round(can be illuminated)		Pilot lamp	HBDS1-AWY-D/△/▲/◎	
		Momentary	HBDS1-AWY-11/△/▲/◎	
MEGATRON	1NO1NC	Alternate	HBDS1-AWY-11Z/△/▲/◎	
	2NO2NC	Momentary	HBDS1-AWY-22/△/▲/◎	R G Y O B W N
Silvery Frame		Alternate	HBDS1-AWY-22Z/△/▲/◎	The black cover can not be used for
Square(can be illuminated)		Pilot lamp	HBDS1-AWF-D/△/▲/◎	illuminated pushbutton. © Protective Degree: IP40 and IP65
	1NO1NC	Momentary	HBDS1-AWF-11/△/▲/◎	can be chosen.
MECATRON		Alternate	HBDS1-AWF-11Z/△/▲/◎	
	2NO2NC	Momentary	HBDS1-AWF-22/△/▲/◎	
Silvery Frame		Alternate	HBDS1-AWF-22Z/△/▲/◎	
Rectangular(can be illuminated)		Pilot lamp	HBDS1-AWJ-DT/△/▲/◎	
	1NO1NC	Momentary	HBDS1-AWJ-11T/△/▲/◎	
CATROL		Alternate	HBDS1-AWJ-11ZT/△/▲/◎	
MEGAIRON	ancana	Momentary	HBDS1-AWJ-22T/△/▲/◎	
Silvery Frame	2NO2NC	Alternate	HBDS1-AWJ-22ZT/△/▲/◎	

Product overall dimension



HBDS1 Series A Type Φ22 Pushbutton Switch

Switch Ratings

Rated Insulation Voltage Ui		250V				
Thermal Current 1th			5A			
Rated Voltage			12V	24V	110V	220V
Rated Current	Alternating Current 50/60Hz	Resistive load	_	_	1A	0.5A
		inductive load	<u> </u>	_	0.7A	0.5A
	Direct Current	resistive load	1 A	1A	0.2A	_
		inductive load	0.7A	0.7A	0.1A	_
Contact Material			Silver Alloy			

Minimum load:3V AC/DC 5mA (reference) (range of use depend on operation environment and load type)

Specification

Operating Temperature			perating Temperature	-25°C ~ +55°C(no freezing) keep the air flowing around illuminated pushbutton			
Operating Humidity			Operating Humidity	45 ~ 85%RH (no condensation)			
Contact Resistance			Contact Resistance	≤50m Ω			
Insulation Resistance			nsulation Resistance	≥100MΩ			
Dielectric strength Between contact and lamp terminals Between terminal of the same pole: Between terminal of different pole:		tween contact and lamp terminals	2000V,A C 50Hz,1 min				
		Ве	tween terminal of the same pole:	1000V,AC 50Hz,1 min			
		tween terminal of different pole:	2000V,A C 50Hz,1 min				
Vibration Resistance			/ibration Resistance	50Hz, Amplitude 1.2mmp - p			
Shock Resistance			Shock Resistance	≥10g			
		Momentary Type		1,000,000times			
Life	Mech	Mechanical	Alternate and Selector Type	500,000 times			
Life			Key-lock and Emergency Type	200,000 times			
Electrical			Electrical	≥50,000times			
Terminal			Terminal	Diameter of welded wire:2 × 0.8mm Area of copper wire: 0.75mm² max Connecting link:2.8 × 0.5mm			
Solder Heat Resistance			older Heat Resistance	230°C(no more than 3 second)			
Operating Travel			Operating Travel	(Pushbuttons) about 3mm			

Lamp Ratings

Lamp Type	AC LE	D Lamp (Standard)			Neon Lamp	
Rated Voltage	AC/DC6V	AC/D	C12V	AC/DC24V	AC110V	AC220V
	AC/DC110V AC/DC220V			ACTION	AC220 V	
Cover Color	R	G Y	O	W	R	G
Life	About 40000 hours				About 20000 hours	

Note: the lamp contains a current-limiting resistor inside and doesn't need external connection.

 $DC\ LED\ lamp, dual-color\ LED\ lamp\ and\ other\ voltages\ can\ be\ customized.$

Terminal Arrangement BottomView + Lamp Terminal Lamp Terminal -

Selector and key lock switch contact operation

Position	Comtont	Operating Position & Contact Operation						
FOSITION	Contact	Left	Center	Right				
90° 2 Position	1NO1NC	NO NC		NO NC C				
	2N O2N C	NO NO NO NO		NO NC NO NC				
45° 3 Position	2NO2NC	NO NC NO NC	NONC NONC	NO NC NO NC				

HBDS1 Series A Type Φ22 Pushbutton Switch

Characteristic

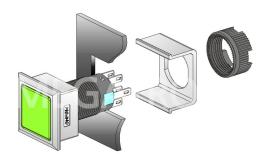
Specs It includes pilot lamp, pushbutton, illuminated pushbutton, selector switch, key-lock switch and emergency switch; the head shape could be round (Φ 25mm), square (25×25 mm) and rectangular (25×31 mm).

Functions With stable property, low contact resistance, strong insulation resistance, anti-vibration and anti-impact feature, products meet the standards of IEC60947-5-1,GB14048.5, etc.

Structure The switch elements are of fast-break structure, and every elements consist of 1NO1NC. One pushbutton can collocate not more than 2 elements.

Feature Using veneering installation, the front frame of the product is only 2mm higher over the panel. The top face could be customized of various patterns.

Protective Degree IP40 or IP65.



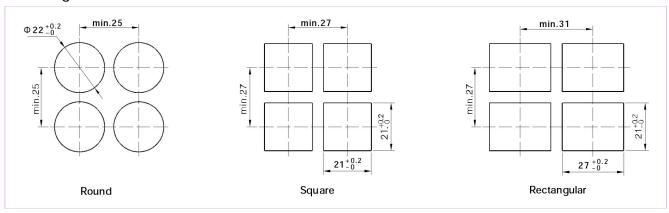




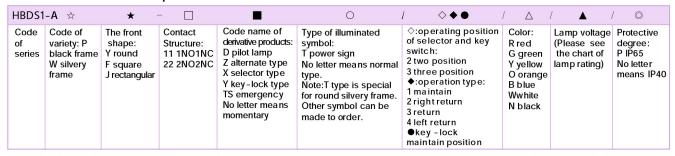




Mounting hole dimension



Model Number Description



Note: Pls check other specification, lamp ratings, structure and terminal explanation from HBDS1 series A type in ONPOWplastic products catalogue.