

### **HOB** series Indirect Controls

#### **Features**

- · Wide variety for easy customization.
- · High impact ABS enclosures.
- One and two speed operators.
- · Neoprene booted buttons.
- Easy force & positive detent switches/buttons.
- - 15°C to +70°C ( 5°F to +160°F)operation.
- · CE Approved.
- Contacts Rated 5A at 120VAC.
- 100g Shock resistance.
- Indoor or Outdoor use, fix between bushing collar and control cable by a clamps for water-proof (Ip65) if outdoor use.

### **Bushing Collar**

3 sizes for cable diameters (9.5mm to 21mm).

### Enclosure

Ergonomic design, visible safety yellow. shock and vibration resistant, rugged ABS 2 through 12 button. Regular or deep style. Two piece enclosure simplifies field wiring.

### **Button legends**

Standard button legends are included.

### Cable Bushings

Available in 2 sizes (9.5mm to 21mm).

#### **Buttons**

Silicon Rubber booted buttons. Seals out dirt and moisture.

#### **Fasteners**

Hardware and threaded inserts in housing to prevent thread stripping.

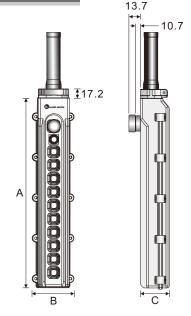


#### Warning

#### To avoid severe personal injury or death do not:

- 1.Lift loads greater than rated load capacity of hoist.
- Operate if direction of hook travel does not agree with that indicated on control.
- 3.Lift people or loads over people
- 4. Operate unless load is centered in hook and latch is closed.
- 5. Operate unless hook travel limit devices function-test wthout loads each shift.
- 6. Operate with worn, twisted, kinked, or other damaged chain or wire rope.
- 7. Operate when hoist is not centered over load.
- 8. Operate hoist if chain or wire rope is not seted properly in sprockets, drum, or sheave.
- 9. Operate damaged or malfunctioning hoist.

### **Enclosure Dimensions**



Model	No. of Positions	А	В	С
HOB-81	2	123	76	53
HOB-82	4	182	76	53
HOB-83	6	242	76	53
HOB-84	8	301	76	53
HOB-85	10	369	83.5	56
HOB-86	12	425	83.5	58.5

HOB-81	HOB-82	HOB-83	HOB-84	HOB-85	HOB-86
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### Cable Bushing Size



**812** 9.5mm~17mm



**834** 15mm~17mm



**856** 17mm~21mm

### Crane Cable with Steel wire

Stranded Conductor	No. of Core	Insulation Thickness	Insulation Diameter	Jacket Thickness	Overall Diameter
mm²		mm	mm	mm	mm
	3c	0.8	3.0	1.5	9.5
	4c	0.8	3.0	1.5	11.0
	5c	0.8	3.0	2.0	12.0
1.25	6c	0.8	3.0	2.0	12.5
	8c	0.8	3.0	2.0	15.5
	10c	0.8	3.0	2.0	17.1
	14c	0.8	3.0	2.0	18.4
	16c	0.8	3.0	2.0	19.1
	24c	0.8	3.0	2.0	19.3

Part N O.	Appearance	View	Drawing	Operation
HOB-A		47 47 47 47 47 47 47 47 47 47	O ON OFF	Maintained ON/OFF
HOB-B(1b)		09.5 07 04.5 R14.5 Solution 15.5 Solution 15	1 NC	Emergency Stop (1NC)
HOB-B(2b)		04 27 20 20 20 36 46.5	STOP	Emergency Stop (2NC)
HOB-B(1a1b)		04 013 013 013 013 013 013 013 013	STOP  O  O  1 NO 1 NC	Emergency Stop (1NO1NC)

Part No.	Appearance	View	Drawing	Operation
HOB-C		9.5		Indirect Single Speed
HOB-D		49.5 40.5 40.5 40.5 40.5	6 5 O   O O O O O O O O O O O O O O O O O O	Indirect Double Speed (2NO/2NO) Option: 2NO/2NC
нов-е		020		Light Indicator (Red or Green) 12VDC 24VDC 110VAC 220VAC
HOB-F		Ø4.5 Ø2.5 1.5 12.5 024.5	1 C.W.	Variable Position Resistor 5ΚΩ
HOB-G		21.5 04.5 04.5	TOP NC1 NC2 NO1 NO2 C1 C2	Selector Switch (2-way)

Part No.	Appearance	View	Drawing	Operation
нов-н		29 04.5	TOP NC1 NC2 NO1 NO2 C1 C2	Key Lock Switch (2-way)
HOB-I		019 04.5 04.5 04.5 16.5 16.5		Blanking Plug
HOB-J		29 04.5 04.5	TOP   NC1 NC2   NC1 NC2   C1 C2   C2   C2   C2   C2   C2   C3   C3	Selector Switch (3-way)
нов-к		02.5 04.5	TOP	Toggled ON/OFF
HOB-R		29.5	 0 0	Start Switch

### **HOB series – Direct Controls**

Designed for direct control of single phase electric motors. Since motor current is controlled directly by the pendant switch, extra reversing contactors or costly controls are not required.

#### **Features**

- •Durable high quality ABS pendant switch housing.
- •Highly visible safety orange color.
- •NEMA 4/12 water-proof enciosure.
- •Split case design for easy installation and wiring.
- •Flenible cable boot selection to match size of cable prevents entry of debris.
- •Slim compact size suited for one hand operation, insulated for operator safety.
- •Direct control ratings for 1HP max. @120VAC.
- •Two button switch with a wide range of legend markings
- •Silicone rubber booted buttons seals out dirt and moisture.









Item	Specification	
Power Source	1 φ 100/110V / 1 φ 200/220V	
Voltage Rating	AC 250V	
Current Rating	15A	
Insulation Resistance	Above 100MΩ (DC500)	
Voltage Endurance	AC 2500V, 1mintue	

# HOB series Direct Controls – single phase

Model	Appearance		View		Operation
HOB-213		135 32 68 82	e35		Two buttons with single speed
HOB-160S		245			Two tubes/two buttons with single speed
HOB-160SB		245	28		EMS/Two tubes/ two buttons with single speed
HOB-613		175 68 19 19 19 19 19 19 19 19 19 19 19 19 19	22 48		Two buttons with single speed
HOB-613B		175 68 10 10 10 10 10 10 10 10 10 10 10 10 10	22 48	慰按班向下3.5	EMS/Two buttons with single speed
HOB-913		200	74	Poor	Two buttons with single speed
HOB-913B		200 32	74		EMS/Two buttons with single speed

# HOB series Direct Controls – three-phase

Model	Appearance		View		Operation
HOB-271		182.5 65 6 182.5 182.5 182.5	43-111-	THE PARTY OF THE P	Two buttons with single speed
HOB-272		182.5 <sub>30</sub> 60 9	43 11		Four buttons with single speed
HOB-273	00000	17.5 <sup>J</sup> 242 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ø3.5 43		Six buttons with single speed

Part No.	Appearance	View	Drawing	Remark
HOB-213-C direct single speed/single phase		69.5 47 47 47 47 47 47 47 47 47 47	3 Up	apply to HOB-213 HOB-613 HOB-613B
HOB-271-C direct single speed/three- phase		04.8 016 012.5 012.5 012.5 012.5 012.5 012.5	3 4 1 2 0 6 0 6	apply to HOB-271 HOB-272 HOB-273
HOB-913-C direct single speed/single phase	R OI	06.5	L O O O O O O O O O O O O O O O O O O O	apply to HOB-160S HOB-160SB HOB-613 HOB-913 HOB-913B

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