

Outline




The structure of the COB 260 series is exposed button packing for which button packing is provided outside the case. These are compact, economic pushbutton switches for hoist and crane operation specifically for low capacity.

Cable protection area (cable bushing) and waterproof area (cable packing) are separate, so cable can easily be inserted and better water resistance can be achieved.

The standard case is formed from shockproof ABS, rendering it lightweight and risk-free in terms of electrical shocks, so it can be used safely.

Features a mechanical interlock. Simultaneous use of, for example, the up/down or east/west buttons is impossible to ensure safety.

Basic Type List

Type name	COB 261T	COB 262T	COB 263T
Appearance			
No. of buttons	2 (1 pair)	4 (2 pairs)	6 (3 pairs)
Button packing	Exposed		
Prevention of erroneous operation	With mechanical interlock		

General specifications

Specifications

Item	Rating
Degree of protection	IP65 (JIS C 0920) Electrical Appliance and Material Safety Law \triangleleft PS \triangleright : Rainproof type
Material/ Color	Case: Shockproof ABS Resin ^{Note /} Orange (Munsell 7.5YR7/13 equivalent) Case-tightening screws: Stainless (\pm screws) Cable bushing: Synthetic rubber / Black
Vibration proof	Operational Tolerance 10 to 55Hz Displacement : 1.5 mm
Shockproof	Durability 500m/s ²
	Operational Tolerance 100m/s ²
Connected terminal	M3.5 screw (Pressure terminal type)
Ambient temperature	-15°C to +40°C (must be free of ice or condensation)
Relative humidity	45 to 85% RH
Installation position	Must be installed with the cable slot uppermost using appropriate cable cabling.

Rating

Item	Specifications
Voltage used	3 ϕ 200/220V
Rated insulation voltage	250V AC
Rated thermal current	7A
Insulation resistance	100M Ω or more (500 V DC Megger)
Withstand voltage	2000 V AC / minute

Compliance standards

Name of standards
JIS C 8201-3
JIS C 0920
Electrical Appliance and Material Safety Law \triangleleft PS \triangleright (compliant products)

For Direct Operation of Electrical machinery

COB 260 series

Product List

No. of buttons	Type	Maximum applicable electrical machinery capacity 3 φ 200/220V	Included cable bushing (Applicable cable diameter range)	Included marking board	Contact arrangement	General mass (g)
2 (1 pair)	COB 261T	1 kW	COB A2 (φ 10.3 to φ 13.5)	Up, Down	2NO-2NO	270
4 (2 pairs)	COB 262T	1 kW×2	COB B1 (φ 13.3 to φ 16.5)	Up, Down, East, West, South, North	2NO-2NO-2NO-2NO	400
6 (3 pairs)	COB 263T	1 kW×3	COB B1 (φ 13.3 to φ 16.5)	Up, Down, East, West, South, North	2NO-2NO-2NO-2NO-2NO-2NO	520

Remark : Tightening up method is adopted to secure the cable within the case for standard products. Steel core attachment board is also available. Please contact our sales clerk for further details.

Option

Cable bushing

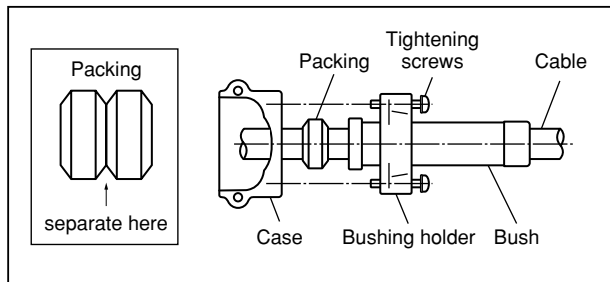
It is dangerous to use the standard cable bushing included with this product with inappropriate cabling, as rainwater may easily enter the switch. Please purchase the appropriate cable bushing.

Cable bushing type name	Applicable cable diameter range	Packing (waterproof area)	Bush (protection area)
COB A1	φ 7.5 to φ 10.5	CC-A1	CB-A
COB A2	φ 10.3 to φ 13.5	CC-A2	
COB B1	φ 13.3 to φ 16.5	CC-B1	CB-B
COB B2	φ 16.3 to φ 19.5	CC-B2	

Remark : C7 to C19 for COB 60 series can also be used.

• How to install the cable bushing

The cable is fed through the bushing holder, bushing, and packing in that order, and the tightening screw used to secure the bushing holder firmly to the case. Two packings are prepared as a set. Check the cable range displayed on the packing, and separate off the applicable one.



Reference : When inserting into the bushing, it is recommended to lubricate the cable and cable slot with wet soap to ease insertion. Do not use lubricating oil, as this may damage the bushing.

Button characters

An extensive range of markings boards is available in addition to the markings board included. Characters other than the following can also be produced. Please contact us for further details.

Standard markings (Black characters)



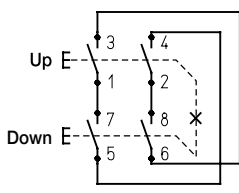
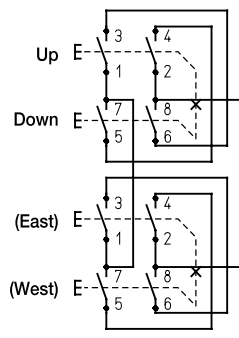
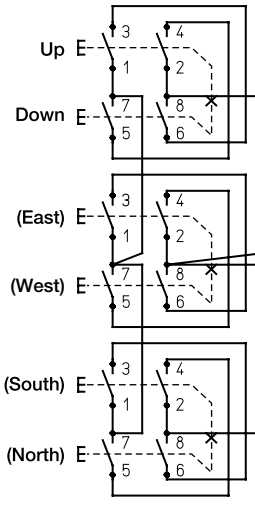
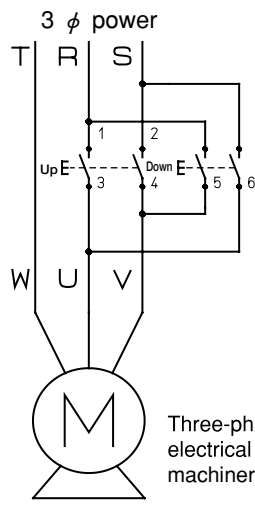
Special markings (Black characters)



Markings sheet (COB60No601)



Diagram of Internal connections

COB 261T	COB 262T	COB 263T	Usage example (Elementary wiring diagram)
 <p>1-2 (R-S) : Power 3-4 (U-V) : Electrical machinery Connection cable Note : 2 mm², 4-core</p>	 <p>1-2 (R-S) : Power 3-4 (U-V) : Electrical machinery Connection cable Note : 2 mm², 6-core</p>	 <p>1-2 (R-S) : Power 3-4 (U-V) : Electrical machinery Connection cable Note : 2 mm², 8-core</p>	 <p>3 ϕ power T R S W U V Three-phase electrical machinery</p>

Note : If a different cable diameter is used, please purchase an appropriate cable bushing.

Dimensions (Unit: mm)

COB 261T	COB 262T	COB 263T
