

		Series	Product Type	Part No		Copper Free or not			
Emergency Stop Switch	φ16	X6 Series	Plain Type	AB6E-∗RH		Copper Free			
			Arrow Type	AB6E-∗RM		Copper Free			
			Non-Illuminated Type	XA1E-BV∗U∗		Copper Free			
			Non-Illuminated	XA1E-BV∗	XA1E-BV∗	Copper Free			
			Non-Illuminated/Plain	XA1E-BV∗T∗RH		Copper Free			
			Non-Illuminated/Arrow	XA1E-BV∗T∗RM		Copper Free			
	φ22	XW Series	Non-Illuminated	XW1E-BV∗		Copper Free			
			Illuminated	XW1E-LV∗	XW1E-TV∗	Copper Free			
			Non-Illuminated	HW1B-V∗		Copper Free			
	φ30	XN Series	Non-Illuminated	XN1E-BV∗	XN5E-BV∗	Copper Free			
			Illuminated	XN1E-LV∗	XN5E-LV4∗	Copper Free			
			LED interlocking Illuminated	XN1E-TV∗	XN5E-TV4∗	Copper Free			
Padlock			XN4E-BL ∗	XN4E-LL∗	XN4E-TL∗	No			
Safety Interlock Switch	HS5D Series	Metal Operation Head	HS5D-11Z∗	HS5D-02Z∗		No			
		Resin Operation Head	HS5D-11RN∗	HS5D-02R∗		No			
		Solenoid(Spring lock) 2 Contact	HS5L-XD4∗	HS5L-XH4∗		No			
		Solenoid (Solenoid lock) 2 contact	HS5L-XD7∗ HS5L-XF7∗	HS5L-XG7∗ HS5L-XH7Y∗		No			
		Solenoid (Spring lock) 4 contact	HS5L-VA4∗ HS5L-VB4∗	HS5L-VC4∗ HS5L-VD4∗ HS5L-VD44S∗	HS5L-VF4∗ HS5L-VG4∗ HS5L-VJ4∗	No			
		Solenoid (Solenoid lock) 4 contact	HS5L-VA7∗ HS5L-VB7∗	HS5L-VG7∗ HS5L-VD7∗ HS5L-VD7Y4S∗	HS5L-VF7∗ HS5L-VG7∗ HS5L-VJ7∗	No			
		Rear Unlocking Button (Spring lock)4 contact	HS5L-VA4∗ HS5L-VB4∗	HS5L-VC4∗ HS5L-VD4L∗ HS5L-VD44LS∗		No			
		Dual Safety Circuit(Spring lock)	HS5L-DD4∗	HS5L-DD44S∗		No			
		Dual Safety Circuit/Rear Unlocking Button(spring lock)	HS5L-DD4+	HS5L-DD44LS∗		No			
		HS5D Series	Resin Head	HS5D-11RN∗ HS5D-02RN∗	HS5D-12RN∗ HS5D-03RN∗			Copper Free ∗1)	
			HS6B		HS6B-11B∗ HS6B-02B∗	HS6B-12B∗ HS6B-03B∗			Copper Free
				HS5用	Actuator	HS9Z-A51 HS9Z-A51A	HS9Z-A52 HS9Z-A52A		Copper Free
	HS9Z-A55S	HS9Z-A55				Copper Free ∗1)			
	HS9Z-A61	HS9Z-A62				Copper Free			
	HS9Z-A65	HS9Z-A66				Copper Free ∗1)			
	HS6用								
	Flush Mount Switch	LB Series	Operator Illuminated	LB6L-∗ LB6GL-∗	LB7L-∗ LB7GL-∗	LB8L-∗ LB8GL-∗	Copper Free		
Pilot Light			LB6P-∗	LB7P-∗	LB8P-∗	Copper Free			
Push Button			LB6B-∗ LB6GB-∗	LB7B-∗ LB7GB-∗	LB8B-∗ LB8GB-∗	Copper Free			
Selector			LB6S-∗	LB7S-∗	LB8S-∗	Copper Free			
Selector Illuminated			LB6F-∗			Copper Free			
Selector with Key			LB6K-∗	LB7K-∗	LB8K-∗	Copper Free			
Rever			LB6T-∗			Copper Free			
Buzzer			LB6Z-∗	LB8Z-∗		Copper Free			
Push Button Illuminated			LB6ML-∗	LB7ML-∗	LB8ML-∗	Copper Free			
Pilot Light			LB6MP-∗	LB7MP-∗	LB8MP-∗	Copper Free			
Push Button			LB6MB-∗	LB7MB-∗	LB8MB-∗	Copper Free			
Selector			LB6MS-∗	LB7MS-∗	LB8MS-∗	Copper Free			
Selector Illuminated			LB6MF-∗			Copper Free			
Selector with Key			LB6MK-∗	LB7MK-∗	LB8MK-∗	Copper Free			
Buzzer			LB6MZ-∗	LB8MZ-∗		No			
LBW Series			Push Button Illuminated	LBW6L-∗ LBW6GL-∗	LBW7L-∗ LBW7GL-∗			Copper Free	
			Pilot Light	LBW6P-∗	LBW7P-∗			Copper Free	
			Push Button	LBW6B-∗ LBW6GB-∗	LBW7B-∗ LBW7GB-∗			Copper Free	
		Selector	LBW6S-∗	LBW7S-∗			Copper Free		
		Selector with Key	LBW6K-∗	LBW7K-∗			Copper Free		
		Push Button Illuminated	LBW6ML-∗	LBW7ML-∗			Copper Free		
		Pilot Light	LBW6MP-∗	LBW7MP-∗			Copper Free		
		Push Button	LBW6MB-∗	LBW7MB-∗			Copper Free		
		Selector	LBW6MS-∗	LBW7MS-∗			Copper Free		
Selector with Key		LBW6MK-∗	LBW7MK-∗			Copper Free			
CW Series		Push Button Illuminated	CW1L-M1-∗ CW4L-M1-∗	CW1L-M2-∗ CW4L-M2-∗	CW1P-1-∗ CW4P-1-∗ CW1P-2-∗ CW4P-2-∗	Copper Free			
		Push Button	CW1B-M1-∗ CW4B-M1-∗	CW1B-M2-∗ CW4B-M2-∗		Copper Free			
		Selector	CW1S-2∗- CW4S-2∗-			Copper Free			
		Selector with Key	CW1K-∗	CW4K-∗		No			

Flush Mount Switch		LW Series	Push Button Illuminated	LW6ML-M* LW6ML-A*	LW6L-M* LW6L-A* LW6GL-M* LW6GL-A*	LW7L-M* LW7L-A* LW7GL-M* LW7GL-A*	Copper Free
			Push Button	LW6MB-M* LW6MB-A* LW6B-A*	LB7B-M* LB7B-A* LW7GB-M* LW7GB-A*	LW6GB-M*	Copper Free
			Selector	LW6MS-2* LW6MS-3*	LW6S-2* LW6S-3*	LW7S-2* LW7S-3*	Copper Free
			Selector Illuminated	LW6MF-2* LW6MF-3*	LW6F-2* LW6F-3*	LW7F-2* LW7F-3*	Copper Free
			Selector with Key	LW6MK-2* LW6MK-21*	LW6MK-3*	LW6K-2* LW6K-3*	No
φ22 Control Unit	φ22	HW Series	Push Button Illuminated	HW1L-M* HW1L-A*	HW2L-M* HW2L-A*	HW3L-M* HW3L-A*	Copper Free
			Push Button Illuminated (Short body)	HW1P-1*	HW2P-*		Copper Free
			Push Button	HW1B-M* HW1B-A*	HW2B-M* HW2B-A*	HW3B-M* HW3B-A*	Copper Free
			Push Button with Pilot Light	HW1P-*	HW2P-*		Copper Free
			Dual Push Button	HW7D-B*	HW7D-L*		Copper Free
			Selector	HW1S			Copper Free
			Selector with Key	HW1K-*P	HW1K		No
			Selector Illuminated	HW1F	HW1F-*L		Copper Free
			Selector Push Button	HW1R			Copper Free
			Monolever	HW1M	HW1M-L		Copper Free
φ22 Smart RFID Reader	φ22	KW Series	Main Unit	KW2D-R100Q*		Copper Free	
			Main Unit with holder	KW2D-RH100Q*		Copper Free	

The conditions for using copper or not are whether using for surface of the panel.

We do not research for product inside which is used for contact block(screw and contact) because the customer has not require.

The safety swith do not research actuator and head part.

*1) The copper content of metal using is less than 5% (Our research).