

Enable grip switch

SG-C1

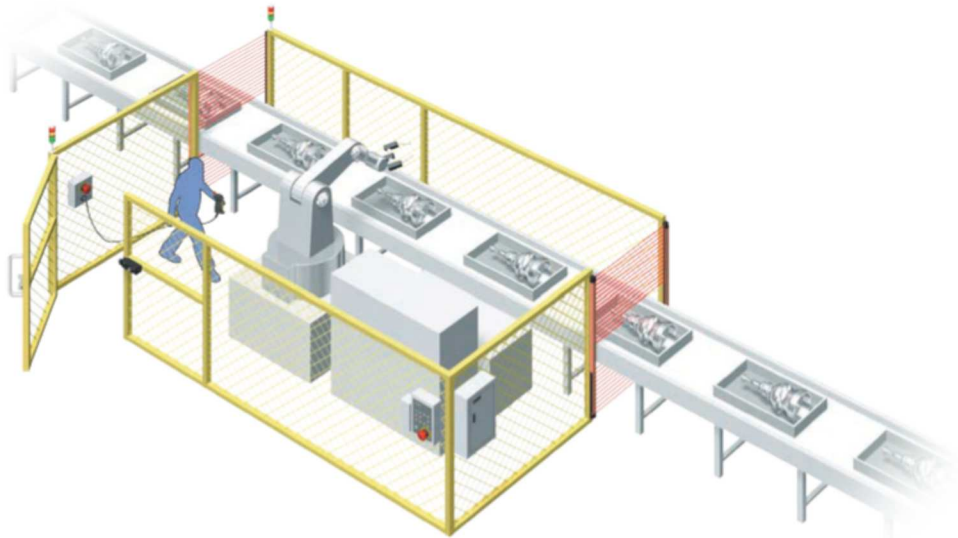
SERIES



(Push monitor switch)



Compact, lightweight grip switches designed to fit comfortably in the hand



This product line includes models with control units suited to a variety of applications.

The compact, lightweight grip profile was designed based on human engineering considerations.

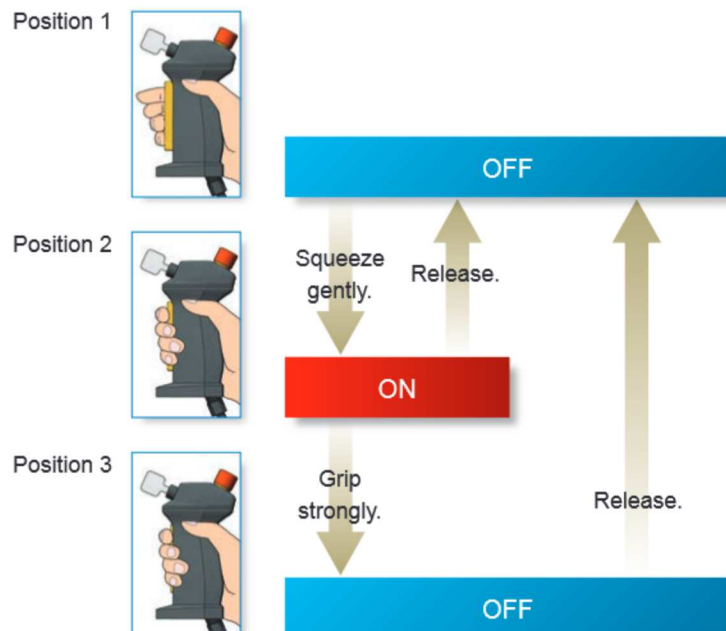
The compact profile fits the hand perfectly, ensuring comfortable operation. Thanks to its lightweight design (**SG-C1-21**: approx. 140 g) and compact size, it is easy to hold even for individuals with small hands, and it can also be used in confined work locations.

Reduced impact during extended operation

We reduced the impact during extended operation by lowering the holding load in position 2 (ON).

Pleasant, clear button operation

Tactile clicking feedback allows easy recognition of switch operation when shifting from position 1 (contact OFF) to position 2 (contact ON).



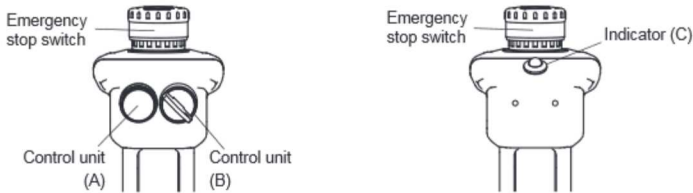
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Order guide

Enable grip switch

Contact configuration						Rubber boot material / Color	Wiring style	Model No.	
3 position enabling switch	Push monitor switch	Additional control units							
		Emergency stop switch	Control unit (A)	Control unit (B)	Indicator (green) (C)				
2 contacts	With (1NC)	Without				Without	Silicone rubber / (Yellow) (Note)	Solder terminal	SG-C1-21
		With (2NC)	Without		With				SG-C1-21-E
		Without	Momentary pushbutton switch (2c)	Momentary pushbutton switch (2c) Key selector switch (2c)	Without	SG-C1-21-EG			
		With (2NC)				SG-C1-21-MM			
							SG-C1-21-EMM		
								SG-C1-21-EMK	

Additional control unit layout



Note: Silicone rubber: Can be used in general factories. Remains flexible in cold temperatures. Suitable in applications with a wide operating temperature range.

Contact configuration / Operating patterns

Grip switch (during operation of center of the rubber boot)

	Terminal No. Solder terminal	Position 1	Position 2	Position 3
Push (Position 1→2→3) →	NO1-C1	ON	OFF	OFF
	31-32	OFF	ON	ON
	NO2-C2	OFF	OFF	ON
Release (Position 2→1) ←	NO1-C1	OFF	ON	ON
	31-32	ON	OFF	OFF
	NO2-C2	ON	ON	OFF
Release (Position 3→1) ←	NO1-C1	OFF	OFF	ON
	31-32	ON	ON	OFF
	NO2-C2	ON	ON	OFF

3 position enabling switch: 2 contacts; pin No.: NO1-C1, NO2-C2
Push monitor switch: 0, 1 contacts: pin No.: 31-32 (SG-C1-21□)

Note: Push monitor switch (terminal No.31-32) will be positive opening circuit (⊕) when the switch operates from position 2 to 3. Use contacts of terminal No. NO1-C1 and NO2-C2 for the output of enabling system.

The above operating characteristics illustrate the performance when the center of the rubber boot is pressed. Pressing the edge activates one of the two 3 position enabling switches inside earlier than the other, and may cause a delay in the operation.

■ : Contact ON (closed) □ : Contact OFF (opened)

Key selector switch

Operator position & contact operation (top view)					
Position	Key removal position	↙ (Left)		↗ (Right)	
Maintained 1 2	Removable in all positions	Left contact NO1	Right contact NO2	Left contact NO1	Right contact NO2
		NC1	NC2	NC1	NC2
		C1	C2	C1	C2

Indicator

Pay attention to the polarity of the power supply as UP series units do not contain a diode for protection against reverse polarity. On solder terminal units, the terminal with a white paint marking is positive.

