Safety Grip Type

Enabling Switches

Autonics

Ordering Information

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This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

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No mark: Standard type B: Stop button type M: Momentary button type



• Instruction manual $\times 1$

Product Components

• Product imes 1

• Cable gland imes 1

Sold Separately

- Mounting bracket: BK-SFEN
- Holding key: SFEN-HK



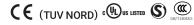


For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Models: Standard / Stop button / Momentary button type
- High operation sensitivity with 3-position snap action
- Enable operation indicator (green LED)
- Various contact types
- : Standard type N.O. 2 + N.C. 1
- : Stop button type N.O. 2 + N.C. 2
- : Momentary button type N.O. 2 + N.O. 2
- Secure connection with cable gland
- Holding key SFEN-HK (sold separately)
- : for connection with safety door switch (SFD Series)





Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Italia Tel. +39 051 6353 511 - www.sensormatic.it

Specifications

• Enable switch

Rated Insulation Voltage	250 VAC~		
Rated through current	2.5A		
Rated inductive load	AC-15 (0.75 A / 240 VAC~), DC-13 (0.55 A / 125 VDC==)		
Rated resistive load ⁰¹⁾	0.75 A / 240 VAC~, 0.55 A / 125 VDC==		
Controller strength ⁰²⁾	Operation direction: 200 N, for 1 min		
Operating frequency	Electrical: ≤ 20 / min, Machanical: ≤ 20 / min		
Dielectric strength	Between terminals of same polarity, between terminals of different polarity, between terminal and non-live part : 2,500 VAC \sim 50 / 60 Hz for 1 min (impulse dielectric strenght)		
Electrical life cycle	≥ 100,000 operations (rated load)		
Machanical life cycle	$OFF \rightarrow ON \rightarrow OFF$: $\geq 100,000$ opertions / $OFF \rightarrow ON$: $\geq 1,000,000$ operations		

01) Use a 10 A fuse gl or gG conforming to IEC60269 as short-circuit protection. The body does not have a built-in fuse.

02) Do not use the switch more than the controller strength. Failure to follow this instruction may result in product damage.

Stop button

Rated Insulation Voltage	250 VAC~		
Rated through current	3A		
Rated resistive load ⁰¹⁾	AC-12 (3 A / 250 VAC~), DC-12 (3 A / 30 VDC==)		
Controller strength ⁰²⁾	Operation direction: 400 N, for 1 min (operation direction: 0.5 N m, for 1 min)		
Operating frequency	Electrical: $\leq 10 / \min$, Machanical: $\leq 10 / \min$		
Dielectric strength Between terminals of same polarity: 1,000 VAC~ 50 / 60 Hz for 1 min. between terminals of different polarity, between terminal and non-live : 2,000 VAC~ 50 / 60 Hz for 1 min.			
Electrical life cycle	≥ 100,000 operations (rated load) (Push / Release 1 time)		
Mechanical life cycle	≥ 100,000 operations (Push / Release 1 time)		

01) Use a 10 A fuse gl or gG conforming to IEC60269 as short-circuit protection. The body does not have a built-in fuse.

02) Do not use the button more than the controller strength. Failure to follow this instruction may result in product damage.

Momentary button

Rated Insulation Voltage	125 VAC~		
Rated through current	0.1 A		
Rated resistive load ⁰¹⁾	AC-12 (0.1 A / 125 VAC~), DC-12 (0.1 A / 30 VDC==)		
Controller strength ⁰²⁾	Operation direction: 10 N, for 1 min		
Operating frequency	Electrical: $\leq 25 / \min$, Machanical: $\leq 60 / \min$		
Dielectric strength	Between terminals of same polarity: 600 VAC \sim 50 / 60 Hz for 1 min. between terminals of different polarity, between terminal and non-live part : 1,000 VAC \sim 50 / 60 Hz for 1 min.		
Electrical life cycle	\geq 100,000 operations (rated load)		
Machanical life cycle	≥ 1,000,000 operations		

01) Use a 10 A fuse gl or gG conforming to IEC60269 as short-circuit protection. The body does not have a built-in fuse.

02) Do not use the button more than the controller strength. Failure to follow this instruction may result in product damage.

Common spec.

Conditional short circuit current	100 A			
Min. applied load	DC24 V 4 mA			
Directing opening force	$30\text{N}\pm10$			
Directing opening distance	4.8 mm ± 0.5			
Insulation resistance	\geq 100 M Ω (500 VDC= megger)			
Vibration (malfunction)	1.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min			
Shock (malfunction)	150 m/s ² (\approx 15 G) in each X, Y, Z direction for 3 times			
Ambient temperature	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)			
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)			
Insulation class	Class II (double insulation)			
Indicator	Enable operation indicator (green)			
Protection structure	SFEN: IP66 (IEC standard) SFEN-B, SFEN-M: IP65 (IEC standard)			
Applicable wire	AWG 20 to 18 (0.5 to 0.75 mm ²)			
Connection type	M20 connector cable grand			
Meterial	Cover: PA66, button: PC, rubber grip: Silicone			
International standards	IEC 60947-5-1, IEC 60947-5-8, UL 60947-5-1			
Approval	CE (TUV NORD) (Busine S)			
Unit weight (package) SFEN: ≈ 238 g (≈ 363 g) SFEN-B: ≈ 268 g (≈ 388 g) SFEN-B: ≈ 268 g (≈ 376 g)				

Contact composition

	SFEN	SFEN-B	SFEN-M
Enable switch	2 N.O.	2 N.O.	2 N.O.
Option output	1 N.C.	-	-
Stop button	-	2 N.C.	-
Momentary button	-	-	2 N.O.

Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

Α	Enable operation indicator (green)	В	Cable grand
С	Push button B	D	Push button A

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SFEN-B

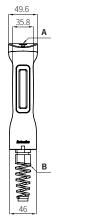




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SFEN-M

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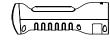




Connecting Cable Gland

• When tightening or replacing the cable gland, assemble the seal nut part and then the flexible nut part in order.

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↑ ↑ Seal nut part Flexible nut part

Cable gland specification and recommended product

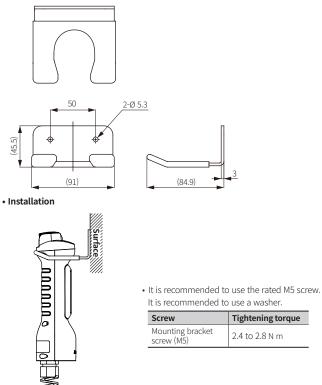
Manufacturer	Model	Cable Ø
	SKINTOP BS ISO M20×1.5 RAL 9005 BK / 5311-1720	7 - 13 mm



Sold Separately: Mounting Bracket

• Unit: mm, For the detailed drawings, follow the Autonics website.

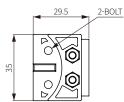
BK-SFEN

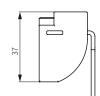


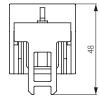
Sold Separately: Holding Key

• Unit: mm, For the detailed drawings, follow the Autonics website.

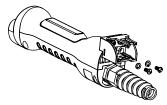
SFEN-HK







Installation



•	Assemble	the	unit	perpendicular t	0	the
	door swite	h				

Use the included dedicated spring washers and screws.

Screw	Tightening torque
Holding key assembly screw	0.5 to 0.7 N m