Safety Slim Type Door Lock Switch

SFDL2 Series

CATALOG

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.

Main Features

- Slim size W 90 x H 105 x D 35.5 mm
- Head unit can be rotated to change insert direction of operation key
  : Operation key can be inserted from 4 directions (top/sides)
- Various contact types (up to 6-contacts)
  : Lock N.C. 2/N.O. 1+Door N.C. 2/N.O.1
  Lock N.C. 3+Door N.C. 2/N.O.1
  Lock N.C. 2/N.O. 1+Door N.C. 3
  Lock N.C. 3+Door N.C. 3
- Manual unlock function (release key) for emergencies during installation or testing
  : Standard (cross) type and special type release keys, rear release button
- Two lock-release methods
  : Mechanical lock-solenoid release, solenoid lock-mechanical release models
- Different installation types depending on operation key insertion position
  : Front / rear installation models
- Excellent strength and durability with metal head model

Ordering Information

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

SFDL2 - ❶ ❷ 6 ❸ - ❹ ❺ ❻ ❼ - ❽

❶ Head material
No mark: Metallic
P: Plastic

❷ Lock/Release method
M: Mechanical Lock/Solenoid Release
S: Solenoid Lock/Mechanical Release

❸ Contact composition
A: Lock 2 N.C./1 N.O. + Door 2 N.C./1 N.O.
B: Lock 3 N.C. + Door 2 N.C./1 N.O.
C: Lock 2 N.C./1 N.O. + Door 3 N.C.
D: Lock 3 N.C. + Door 3 N.C.

❹ Installation direction
No-mark: Front installation
B: Rear installation

❺ Connection outlet specification
M20: M20 thread
G1/2: G1/2 thread

❻ Release key type
No-mark: Cross type
K: Special type

❼ Rear release button
No-mark: None
B: Exist

❽ Release key position
No-mark: Front
T: Bottom

Product Components

- Product
- Instruction manual
- Special type release key
  (Special type release key model)

Specifications

Model	SFDL2-□□□-□□ -□ SFDL2-□□□-□□K-□	SFDL2-□□□-□□ B-□ SFDL2-□□□-□□KB-□
Directing opening force	≥ 80 N	
Directing opening distance	≥ 10 mm	
Locking pullout strength	≥ 1,300 N	
Operating speed	0.05 to 1 m/s	
Operating frequency	≤ 20/min	
Mechanical life cycle	≥ 1,000,000 operations (20/min)	
Indicator	Solenoid status or contact status (orange, depending on connection)	-
Vibration (malfunction)	0.35mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min	
Shock	1,000 m/s² (≈ 100 G) in each X, Y, Z direction for 3 times	
Shock (malfunction)	80 m/s² (≈ 8 G) in each X, Y, Z direction for 3 times	
Ambient temperature	-10 to 55°C, storage: -25 to 65 °C (a non freezing or condensation environment)	
Ambient humidity	35 to 85 %RH , storage: 35 to 85 %RH (a non freezing or condensation environment)	
Protection structure	IP67 01) (IEC standard, except for head)	
Material	Head: zinc or PA, case: PA	
Approval	CE (TUV NORD) cULus LISTED (S) (EAC)	
Accessory	SFDL2-□□□-□□K/KB-□ (Special type release key): rotating key	
Unit weight (packaged)	Normal type: ≈ 400 g (≈ 490 g), rear release button type:≈ 395 g (≈ 485 g)	

01) Rated protection structure is for the switch body. Be cautious about preventing the head part from entering the foreign materials such as dust and water.

Contact block	
Rated voltage/current for load	Resistive load: 6 A/250 VAC~, 0.6 A/250 VDC⎓ Inductive load (IEC): AC-15 3 A/240 VAC~, DC-13 0.27 A/250 VDC⎓ Inductive load (UL): A300, Q300
Impulse dielectric strength	Between the terminals of same polarity: 2.5 kV Between the terminals of different polarity: 4 kV Between each terminal and non-live part: 6 kV
Insulation resistance	≥ 100 MΩ (500 VDC⎓ megger)
Contact resistance	≤ 100 mΩ
Electrical life cycle	≥ 100,000 operations (250 VAC~/6 A)
Conditional short-circuit current	100 A
Solenoid	
Rated voltage	24 VDC⎓, class 2
Current consumption	Supplying power: 0.26A Normal: max. 0.2A (approx. 3 seconds after supplying power)
Insulation class	Class E
Indicator LED	
Rated voltage	24 VDC⎓
Current consumption	2.2 mA

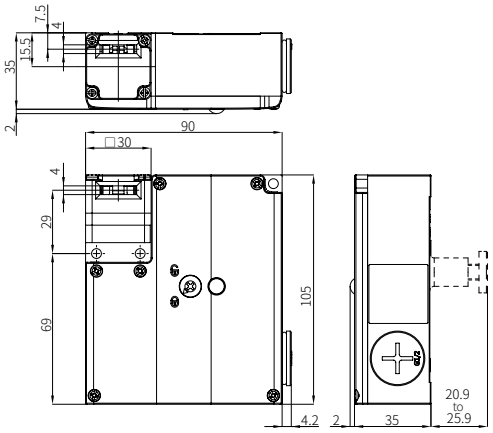
CE (TUV NORD) cULus LISTED (S) GB/T14048.5

Dimensions

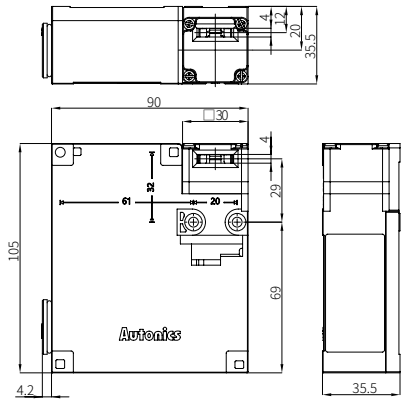
- Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

■ Front installation

- ⬚ The parts marked with a dotted line are dimensions applicable only to the rear release button existing type.

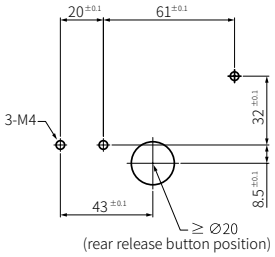


■ Rear installation

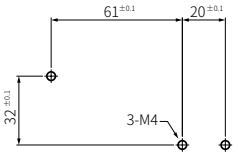


■ Panel cut-out

- Front installation



- Rear installation



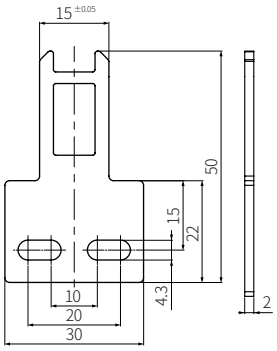
Sold Separately

- Operation key: SFD-K□

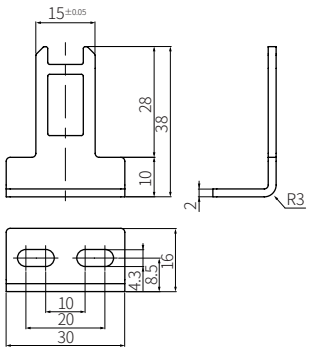
Sold Separately: Operation Key

- Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

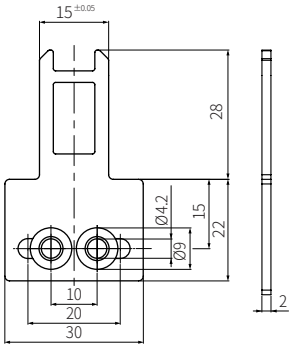
■ SFD-KH



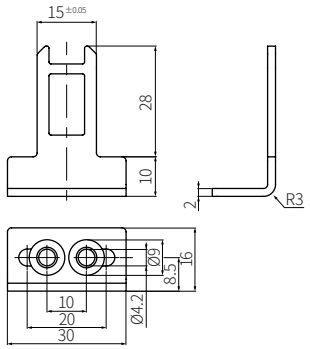
■ SFD-KL



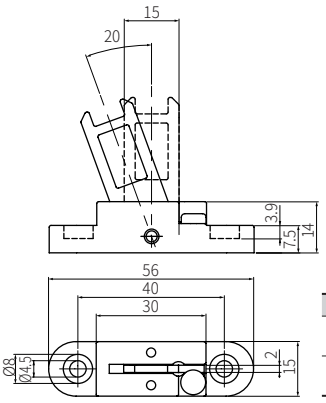
■ SFD-KHR



■ SFD-KLR



■ SFD-KLF, SFD-KLF2



Model	Material
SFD-KLF	Operation key: stainless steel 304, base: polyamide
SFD-KLF2	Operation key: stainless steel 304, base: zinc

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