

INSTRUCTION SHEET

Slide Handle Actuator **HS5 Series/Type HS1T**

Confirm that the delivered product is what you have ordered. Read this instruction sheet to make sure of correct operation. Make sure that the instruction sheet is kept by the end user.

SAFETY PRECAUTIONS

In this operation instruction sheet, safety precautions are categorized in order of importance to Warning and Caution

. WARNING

Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

Caution notices are used where inattention might cause personal injury or damage to equipment.

1	Туре		
	HS9Z-EH5Ļ		
	Applicable Type ————	Rear Lever	
	5 : HS5 Series Interlock switch	L: With Rear Lever	
	1 : HS1T Interlock switch		

2 Specifications and Ratings

Applicable Type	HS9Z-EH5L	HS5D Interlock switch Type No. HS5D-□□** HS5E-K Interlock switch with key Type No. HS5E-K□0L**-△■ HS5L Interlock switch with solenoid Rear unlock button type Type No. HS5L-□44L**-G	
	HS9Z-EH1L	HS1T Interlock switch with solenoid Rear unlock button type Type No. HS1T-□44ZL**-G	
Weight (approx.)		Approx.1800g (HS9Z-EH5L) Approx.2000g (HS9Z-EH1L)	
Operating Temperature		-30 to +70℃	
Mechanical Durability		100,000 operations minimam	
Applicable Shackle Diameter	of Padlock	Ф6 to 13mm	
Withstand Load of Padlock		50N minimum	
Handle Stroke		Approx.80mm	
Thickness of Mounting Part		30 to 65mm (HS5E-K / HS5L / HS1T) 70mm maximum (HS5D)	

· Interlock switches are not supplied with the slide handle actuator and must be orderd separately • For the interlock switch , see the specifications of the interlock switches used.

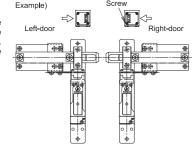
3 Mounting Examples

· Confirm that the package contains the following parts.

		Q'ty	
Part	S	HS9Z-EH5L	HS9Z-EH1L
1 Switch Bese Unit	HS5 Series	1	0
	HS1T	0	1
② Handle Unit	1		1
③ Actuator	HS5 Series	1	0
	HS1T	0	1
Actuator Stop		1	0
⑤ One-way Screw (M5)			2
6 Spring Washer		2 2	
7 Rear Lever		1	1

Mounting Directions of the Head

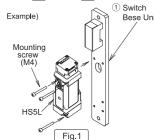
Before installing the interlock switch, change the head direction according to the door type (right-hand or left-hand) as shown at right figure. For the changing of head direction, see the instruction sheet of the interlock switches used.



Installing the Swith Base Unit

(1) Using mounting screws, fasten the interlock switch on ①Switch with Base Unit. Mounting screws are not suppliedand must be provided by the user. (Fig.1)

			,	
	Mounting screw			
Interlock switch	Size	Q'ty	Thread length	
HS5L		3	36~40mm	
HS5E-K	M4	4	30, 94011111	
HS5D		2	27~31mm	
HS1T	M5	3	45mm	



Note1: When using on an HS5L cable side-routing type (HS5L-□44LSM-G), install the switch base unit onto an frame, etc. before installing the Safety Switch. For details on installing the switch base unit, see step 2).

(2) Fasten (1) Switch Base Unit on the mounting frame or panel. Mounting screws and nuts are not supplied and must be provided by the user.

*Installing the rear unlock button Install the rear unlock button kit for frame mounting (HS9Z-FL5□).

For detail, see the instruction sheet,

Mounting screw

Mounting hole required on the frame.

(See Mounting Hole Layout)

Fig.2

Fig.4-1

2 Handle Unit

Mounting

Remove the standard button from the HS5E-K□L /HS5L-□L/HS1T-□L Interlock switch in order to install the rear unlock button kit for mounting frame(Fig.2).

Rear Unlock Button Kits

_	This law are a factor
for Frame Mou	ınting (HS9Z-FL□
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Type	Thickness of mounting part(Y)mm*
HS9Z-FL54	30 ≤ Y ≤ 35
HS9Z-FL55	35 < Y ≤ 45
[HS9Z-FL56]	45 < Y ≤ 55
[HS9Z-FL57]	55 < Y ≤ 65

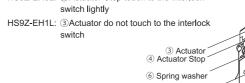
*See 6. Dimensions and Mounting Type Nos. in [] are not supplied as standard. Contact IDEC if required.

Installing the Handle Unit

(3) Fasten ②Handle Unit on the mounting frame screw (M6) or panel. Mounting screws and nuts are not supplied and must be provided by the user. *Make sure that the bolt should fits the bolt port on ①Switch Base Unit (See 5. Adjustment) (Fig.3)

Installing the Actuator

Fig.3 (4) Insert ②Handle Unit into① Switch Base Unit perfectly According to the following, fasten 3 Actuator to 2 Handle Unit using ⑤One-way screws.Assmble ⑥ Spring Washer between 3 Actuator and 5 One-way screw at that time. HS9Z-EH5L: 4 Actuator Stop touch to the interlock switch lightly

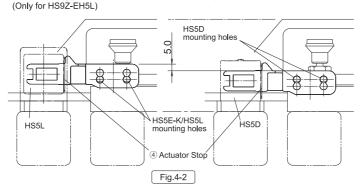


*When mounting, do not mount the actuator on a angle

*HS5E-K L, HS5L-L and HS5D have different actuator mounting holes. See the figure below and the label on the actuator for mounting holes, and fasten the actuator using the attached mounting screws. (Mounting screws are one-way screws and require special tool for removal.

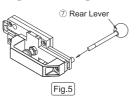
⑤ One-way screw (M5)

Removal tool OW510 (Made by SAIMA CORPORATION)(Sold separately)(Fig.4-2) *After mounting the actuator, remove the actuator stop from the interlock switch.



Installing the Rear Lever

(5) Fasten 7 Rear Lever on 2 Handle Unit. (Fig.5)



*After mounting the screw, apply loctite or the like on the adjustment screw to prevent loosening.
Use screw locking agent that is compatible with the

*Mounting screws and nuts are not supplied and must be provided by the user.

4 Precautions for Operation

№ WARNING

- Turn off the power to the interlock switch before starting installation, removal, wiring, maintenance, and inspection on the safety switch. Failure to turn power off may cause
- electrical shocks or fire hazard.

 Do not disassemble or modify the switch. Also do not attempt to disable the interlock switch function, otherwise a breakdown or an accident will result

♠ CAUTION

- Do no use with other than applicable interlock switches.
- · Read instruction sheet before starting operation
- HS5 Series / HS1T Interlock Switches are Type 2 low-level coded interlocking devices (EN ISO / ISO14119). When using the slide handle actuator in the safety-related part of the system make sure of proper operation while observing the safety standards and the latest regulations of the relevant country or region where the actual machine/system is used. Also, perform risk assessment before operation.

- · Install a mechanical door stop to the end of the door to protect
- the slide handle actuator against excessive force.
- . Do not move the slide handle actuator with excessive force when the door is locked. Otherwise, the actuator may be damaged and may not operate properly.
- Install the slide handle actuator on the outside of the door. Do not install inside the door, otherwise the door cannot be opened or closed by the operator, affecting the operation and causing possible
- Do not close the door when the bolt is slid out. Otherwise, the actuator may be damaged and may not operate properly.
- · Install the slide handle actuator in the direction as shown on the right, so that the cable hub faces downward. Do not install in any other direction.

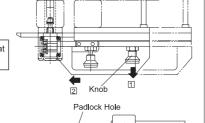
Handle Operation

· Lift the knob completely before operating the handle as shown on the right Make sure to lift the knob first, otherwise damage may be caused

∴ CAUTION

danger to the operator.

When operating the handle, be careful so that your hand or finger is not caught



Padlocking

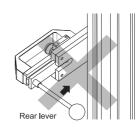
- · Mount the padlock or hasp in the padlock hole Make sure that the total weight of padlocks and hasp does not exceed 50N maximum. Otherwise
- the slide handle actuator will be deformed or damaged

Rear Lever

• The actuator cannot be inserted using the rear lever.

⚠ CAUTION

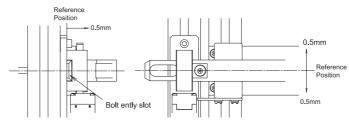
Do not attempt to insert the actuator using the rear lever. Otherwise the actuator may be damaged.



5 Adjustments

Actuator Mounting Reference Position

• The mounting reference position and allowable mounting range are as shown on the



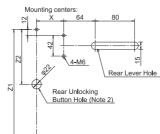
Recommended Tightening Torques

Tightening Torque
1.8 to 2.2N • m
3.2 to 3.8N • m
4.5 to 5.5N • m
4.5 to 5.5N • m
2.7 to 3.3N • m

* When the torque is not enough to recommended screw tightening torque, make sure that the screw do not become loose by using adhesive sealants etc.

6 Dimensions and Mounting (mm)

Mounting Hole Layout

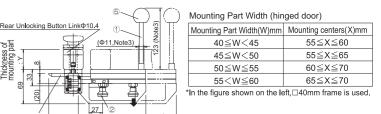


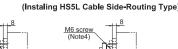
		Interlock switch	71[mm]	Z2[mm]
4 + 80	HS9Z- EH5L	HS5L	21(11111)	106.6
		HS5E-K	225	111
		HS5D		-
<u>we</u> / c	HS9Z-	HS1T	270	122.5
Rear Lever Hole	EH1L			
ocking ole (Note 2)				

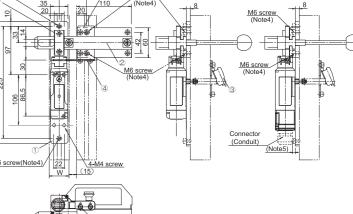
Required when using the HS5E-K\(\sigma L\) / HS5L-\(\sigma L\) / HS1T-\(\sigma L\). Not required when using the HS5D because rear unlocking button is not necessary.

Dimensions

HS9Z-EH5L

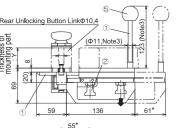






One-wayscrew (M5)

• HS97-FH1I



Ensure that the hole in the mounting panel does not interfere with the rear handle shaft

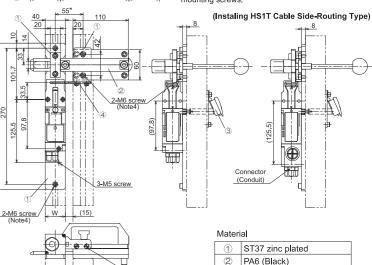
Mounting screw size is M6. Take this screw size sideration when choosing a mounting part. Note 5:

When using on an HS5L cable side-routing type (HS5L- 44LSM-G), take the size of the connector (conduit) into consideration when selecting

③ PA66 (Red)

4 SUS

⑤ PF



One-wayscrew (M5)

7 Precaution for Disposal

Dispose of the HS9Z-EH slide handle actuator as an industrial waste.

IDEC CORPORATION

http://www.idec.com Manufacturer: IDEC CORPORATION, 2-6-64 Nishimiyahara, Yodogawa-Ku, Osaka 532-0004, Japan

- EU Authorized Representative: APEM SAS 55. Avenue Edouard Herriot BP1, 82303 Caussade Cedex, France
- UK Authorized Representative: APEM COMPONENTS LIMITED Drakes Drive, Long Crendon, Buckinghamshire, HP18 9BA, UK

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