



Product Service

CERTIFICATE

No. B 013332 0516 Rev. 02

Holder of Certificate: IDEC CORPORATION
2-6-64 Nishimiyahara, Yodogawa-Ku
Osaka
532-0004 JAPAN

Certification Mark:



Product: Switches
Safety door interlock switch

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 73573705-02

Valid until: 2028-10-25

Date, 2023-10-26

(Shigehisa Ishikawa)

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No. B 013332 0516 Rev. 02

Model(s): **HS1T series**

Nomenclature:

$\frac{HS1T}{I}$ - $\frac{VA}{II}$ $\frac{4}{III}$ $\frac{4}{IV}$ $\frac{Z}{V}$ $\frac{L}{VI}$ $\frac{M}{VII}$ - $\frac{G}{VIII}$ $\frac{1}{IX}$ - $\frac{XXXX}{X}$

I. Basic Model Designation
 HS1T : HS1T series

II. Function

Contact Configuration	Door closing & Locking		Door Closing		Door Opening	Locking		Unlocking
	\ominus	/ *1	\ominus	/ *1		\ominus	/ *2	
A	1		0		1	0		1
B	1		0		1	1		0
C	1		1		0	0		1
D	1		1		0	1		0
F	1		2		0	0		0
G	1		1		1	0		0
H	1		0		0	2		0
J	1		0		0	1		1
DD	2		0		0	0		0
VA	0		1		1	1		1
VB	0		1		1	2		0
VC	0		2		0	1		1
VD	0		2		0	2		0
VF	0		3		0	1		0
VG	0		2		1	1		0
VH	0		1		0	3		0
VJ	0		1		0	2		1
VW	0		0		1	3		0
VX	0		0		1	2		1
TA	0		0		1	1		1
TB	0		0		1	2		0
TC	0		1		0	1		1
TD	0		1		0	2		0
TF	0		2		0	1		0
TG	0		1		1	1		0
TH	0		0		0	3		0
TJ	0		0		0	2		1
XA	0		0		1	0		1
XB	0		0		1	1		0
XC	0		1		0	0		1
XD	0		1		0	1		0
XF	0		2		0	0		0
XG	0		1		1	0		0
XH	0		0		0	2		0
XJ	0		0		0	1		1

All contacts have direct opening action mechanism (\ominus) independently.



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No. B 013332 0516 Rev. 02

Note: Numbers in the table, relevant to contact configuration, indicate the number of circuits of which consist the EUT. Maximum 4 circuits are available.

*1: Symbol for positive opening is applied.

*2: Symbol for monitoring of the guard-lock (marking of the positive opening contacts for monitoring the locking device) according to EN ISO 14119.

III. Operational Voltage for Solenoid

4: Spring lock / 24 V dc solenoid release

7Y: 24 V dc solenoid lock / Spring release

IV. Rated Voltage for Pilot Light

0: Without pilot light

4: 24 V dc

8: 24 V dc (Pilot light is not linked to solenoid)

V. Type of Head

Z: Metal Head

VI. Escape Release Function (on the reverse side of body)

Blank: Without function

L: With escape release button

(has direct opening action mechanism (→ /*1) for “Door closing & Locking contacts” and “Locking contacts”)

*1: Symbol for positive opening is applied.

VII. Conduit Type and Cover

Blank: Without Cover

M: M20 Conduit

G: G1/2 Conduit

P: PG13.5 Conduit

SM: Long cover with M20 Conduit

SG: Long cover with G1/2 Conduit

SP: Long cover with PG13.5 Conduit

VIII. Color of Pilot Light

Blank: Without indicator light

R: Red

Y: Yellow

G: Green

A: Amber

W: White

S: Blue

Any alphanumeric: Denotes other colors except above.

IX. Mounting Direction of Head

Blank: Front

1: Right

2: Rear

3: Left

CERTIFICATE

No. B 013332 0516 Rev. 02

X. Manufacturer Control Numbers or Minor Variation (Optional)
Additional letter(s) and/or number(s)

Accessory Cover to be Assembled in the Field	
HS9Z-CV1LM	Cover with M20 Conduit
HS9Z-CV1LG	Cover with G1/2 Conduit
HS9Z-CV1LP	Cover with PG13.5 Conduit
HS9Z-CV1LSM	Long Cover with M20 Conduit
HS9Z-CV1LSG	Long Cover with G1/2 Conduit
HS9Z-CV1LSP	Long Cover with PG13.5 Conduit

Parameters:

AC:	250VAC / 0.75A, 50/60Hz (AC-15)
DC:	30VDC / 1.0A (DC-13)
Conventional free air thermal current:	2.5A
Rated Voltage of Solenoid:	24Vdc
Rated Insulation voltage:	250V
Protection class:	II
Protection degree:	IP67
Pollution degree:	3 (internally 2)
Overvoltage category:	II
Conditional short circuit current:	50A
Mechanical durability:	2,000,000 cycles
Electrical durability:	100,000 cycles
Operation frequency:	900 operations / hour
Locking force:	5000N
Ambient temperature:	-25 to +55°C

Remark:

When installing / inserting the equipment, all requirements of the mentioned test in the standard must be fulfilled.

Tested according to: EN 60947-5-1:2017
GS-ET-19:2019