ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

# CERTIFICATE

**No. B 013332 0516 Rev. 01**

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

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**Certification Mark:**

Type tested · Production monitored · TÜV SÜD · tuv-sud.com/ps-cert

**Product:** **Switches**
**Safety door lock 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. See also notes overleaf.

**Test report no.:** 73573705-01

**Valid until:** 2024-01-23

**Date,** 2019-01-28 ( Yoshio Sato )


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**Model(s):** **HS1T series**

**Nomenclature:**

| HS1T | - | VA | 4 | 4 | Z | L | M | - | G | 1 | - | xxxx |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | | II | III | IV | V | VI | VII | | VIII | IX | | X |

## I. Basic Model Designation

HS1T : HS1T series

## II. Function

| Contact Configuration | Door closing & Locking | Door Closing | Door Opening | Locking | Unlocking |
|---|---|---|---|---|---|
| | *1 | *1 | | *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 |


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All contacts have direct opening action mechanism (*1) independently.
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)

### III. Operational Voltage for Solenoid
4: Spring lock / 24 V dc solenoid release
7Y: 24 V dc solenoid lock / Spring release

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### 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


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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 |

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

**Tested according to:** EN 60947-5-1:2004/A1:2009
GS-ET-19:2015

**Production Facility(ies):** 016464


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