

## EC Declaration of Conformity

We hereby declare that the following product is in conformity with the requirements of the following EC Directives:

Product: Type D4NS Series  
Safety Door Switch with Direct Opening Action

No. of Directive : 2006/42/EC including amendments  
Title of Directive : Machinery Safety Directive

This product is designed and manufactured in accordance with the following standards:

Machinery safety : EN60947-5-1: 2004  
EN1088: 1995/A1 : 2007,  
Clause 5.7.2.2 and 6.2.1.2

### Description of Product

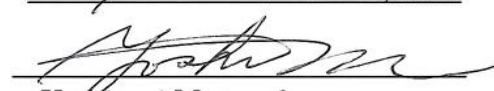
These devices feature direct opening action according to EN60947-5-1 and are intended for safety-related application in machinery.

Year of CE marking : 2003

Manufacturer :

Name : Omron Corporation,  
Industrial Automation Company,  
Business Development Dept. Safety Division  
Address : Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8580 Japan


Date : 12.11, 2009

Signed :   
Yoshinori Matsueda  
Manager

Representative in EU:

Name: Omron Europe B.V.  
Address: Zilverenberg 2, 5234 GM, 's-Hertogenbosch, The Netherlands

Date: 15.12, 2009

Signed:   
Hugo Sintnicolaas  
European Manufacturing and Quality Manager





Product Service

# CERTIFICATE

No. B 09 02 39656 180

**Holder of Certificate:** Omron Corporation  
 Shiokoji Horikawa, Shimogyo-ku  
 Kyoto  
 600-8530 JAPAN

**Production Facility(ies):** 23708

**Certification Mark:**



**Product:** Limit Switches  
 Safety Door Switch with Direct Opening Action

**Model(s):** D4NS-II III IV-V  
 (See Attachment 1 for Nomenclature)

**Parameters:**

AC:	240 VAC / 3 A 50-60 Hz (AC-15)
DC:	250 VDC / 0,27 A (DC-13)
Protection class:	II
Protection degree:	IP67
pollution degree:	3
Overtoltage category:	III
Conditional short circuit current:	100 A
Mechanical durability:	1 000 000 cycles
Electrical durability:	150 000 cycles

**Remark:**  
 When installing/inserting the equipment all requirements of the mentioned test standards must be fulfilled.

**Tested according to:** EN 60947-5-1:2004  
 Meets the requirements of  
 GS-ET-15:2005

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. The certification mark must not be altered in any way. See also notes overleaf.

**Test report no.:** 73512473

**Date,** 2009-02-25

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Certificate Attachment 1  
Certificate No.



Product Service

**B 09 02 39656 180**

**Nomenclature:**

D4NS - 1 A E - #  
 I        II III IV V

I: Basic type

II: Conduit Variation

- |    |           |                             |
|----|-----------|-----------------------------|
| 1: | Pg 13.5   | (1 Conduit)                 |
| 2: | G1/2      | (1 Conduit)                 |
| 3: | 1/2-14NPT | (1 Conduit)                 |
| 4: | M20       | (1 Conduit)                 |
| 5: | Pg 13.5   | (2 Conduit)                 |
| 6: | G1/2      | (2 Conduit)                 |
| 7: | 1/2-14NPT | (2 Conduit)                 |
| 8: | M20       | (2 Conduit)                 |
| 9: | M12       | (1 Conduit, with Plug)      |
| A: | M12       | (2 Conduit, with Plug)      |
| B: | M12       | (1 Conduit, with Connector) |
| C: | M12       | (2 Conduit, with Connector) |

III: Switch Mechanism

- |    |         |                     |
|----|---------|---------------------|
| A: | 1NC/1NO |                     |
| B: | 2NC     |                     |
| C: | 2NC/1NO |                     |
| D: | 3NC     |                     |
| E: | 1NC/1NO | (Make Before Break) |
| F: | 2NC/1NO | (Make Before Break) |

IV: Tongue Key Inserting Direction (Head material)

- |    |             |            |
|----|-------------|------------|
| F: | Front & Top | (plastic)  |
| R: | Top only    | (plastic)  |
| L: | Left & Top  | (plastic)  |
| B: | Back & Top  | (plastic)  |
| D: | Front & Top | (die cast) |
| E: | Top only    | (die cast) |
| G: | Left & Top  | (die cast) |
| H: | Back & Top  | (die cast) |

Note – Head direction is easily changeable to above four directions by users.

V: Customer Code

- |        |                       |  |
|--------|-----------------------|--|
| Blank: | Standard              |  |
| SJ:    | For specific customer | The key extraction force is 70N max.         |
| #:     | Customer code         | Maximum 6 digit number(s) and / or letter(s) |



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### Auxiliary Devices

[See General Information for Auxiliary Devices](#)

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E76675

SAFETY STANDARDS GROUP  
IAB QUALITY & ENVIRONMENT DEPT  
SHIOKOJI HORIKAWA, SHIMOGYO-KU  
KYOTO, 600-8530 JAPAN



Trademark and/or Tradename:

**Door lock switch**, Type D4GL followed by 1, 2, 3 or 4, followed by A through H or J through M, followed by B, F, L, R, D, E, G or H, followed by A, G or N, may be followed by A, B or C, may be followed by 4, may be followed by N, may be followed by additional letter(s) and/or number(s).

**Door switches**, Type D4BS followed by 1, followed by 1, followed by B, F, L or R, followed by S, followed by F, followed by 1, may be followed by additional letter(s) and/or number(s).

Type D4BL Series followed by 1, 2, 3, or 4, followed by C, D, E or F, followed by A, B, C, D, E, F or G, followed by blank, A, B, C, D, E or F, followed by blank, 12-30 or T, followed by blank or maximum 6 digits of letters and/or numbers.

Type D4GS may be followed by 1, 2, 3 or 4, may be followed by up to two letters and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-N followed by 1, 2, 3 or 4, followed by R or T, may be followed by 3, 5 or up to two letter and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-NK followed by 1, 2 or 4, may be followed by E, may be followed by up to six letters and/or numbers.

Type D4NL followed by 1, 2, 3 or 4, followed by A through H, J through N or P, followed by B, D, E, F, G, L or R, followed by A, B, C, D, E, F, G, H, J, K or L, may be followed by A through F, may be followed by 4, may be followed by S, may be followed by Z, may be followed by additional letter(s) and/or number(s).

Type D4NS followed by 1 through 9 or A, B or C, followed by A through F, followed by B, D, E, F, G, H, L or R, may be followed by additional letter(s) and/or number(s).

Type D4N may be followed by A or H, followed by 1 through 9 or A, B or C, followed by 1, 2 or A through G, followed by 20, 21, 21-TK, 22 through 29, 2B, 2C, 2D, 2G, 2H, 2J, 2L, 31, 32, 34, 62, 63, 72, 80, 87, RE, LE, AS, BC or AS1, may be followed by R, may be followed by additional letter(s) and/or number(s).

Type D4N, followed by blank, followed by 9, followed by 1, followed by 20, followed by GP.

Type D4JL, followed by 1, 2, 3 or 4, followed by A through H, J through N or P through R, followed by D or F, followed by A, G or K, followed by C or D, followed by 5, 6 or 7, followed by blank, followed by blank, Y or Z, may be followed by four alphanumeric code, may be followed by six digit maximum alphanumeric code.

**Interlock relay**, Cat. No. D9MCD1.

**Limit switches**, Type D4C may be followed by C, followed by 1, 2, 3, 4, 5 or 6, may be followed by additional suffix numbers.

Type D4C followed by 10, 20, 30, A0, C0 or D0, followed by a two digit number, followed by DRAJ01 or ARAJ01, may be followed by additional letters and/or numbers.

Type D4BS followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 5, 6, 7, 8, A or B, followed by F, R, L or B, followed by S, may be followed by LD or LE, may be followed by additional numbers and/or letters.

Type D4A receptacle Cat. No. D4A- followed by 1000N through 6000N, 1000, 2000, 3000, 4000, 5000 or 6000, may be followed by additional numbers and/or letters; actuator head Cat. No. D4A-00 followed by 01N through 06N, 07-VN, 07-HN, 08N through 12N or 14N through 20N or 24N, may be followed by additional letters and/or numbers; body Cat. No. D4A-0 followed by 100N, 300N, 500N, 700N or 900N, may be followed by additional numbers and/or letters.

Type D4F followed by 1 through 5, followed by 0 or 2, followed by 0, 2, 3, G or H, followed by a number, followed by R, L or D, may be followed by letters and/or numbers.

Type D4A, followed by 3, may be followed by E, followed by 01-06, 07-V, 07-H, 08-12, 14-20 or 24, may be followed by N, followed by GM or KGM, may be followed by additional letter(s) and/or number(s).

Type SHL, followed by D, Q or W, with or without 1 or 2 digit number, followed by 55, followed by blank, followed by blank, L, L6 or L7, followed by blank, MD, ML or MR, followed by blank, 2 or 3, followed by blank, TC or TH, followed by blank or 11; followed by blank or T; followed by blank or up to six additional letters and/or numbers.

Type WL may be followed by R, may be followed by 01, may be followed by A or B, may be followed by M, followed by C#, D#, G#, H#, NJ# or SD#, where # is up to a ten digit symbol of letters and/or numbers, may be followed by 10, 31 or RP, may be followed by P1, may be followed by 55, may be followed by T, TC, TC2 or TH, may be followed by 13##, 14##, RP4##, RP5## or RP6##, where ## is a one or two digit symbol of letters and/or numbers, may be followed by C, G, G1, TS or Y, may be followed by LD, LDN or LE, may be followed by A or F, may be followed by S, may be followed by DGJS03, DGJ###, DK1CJ###, DK1EJ###, M1J###, M1GJ###, M5J###, DHJS###, AGJ###, AK1EJ###, AK1J###, AK4EJ### or K###, where ### is up to a five digit symbol of letter(s) and/or number(s), may be followed by up to a five digit symbol of letters and/or numbers.

Type WL, may be followed by R, followed by C, D, G, H, NJ, or SD, followed by a number, may be followed by LD, followed by GM, KGM or K-GM, may be followed by additional letter(s) and/or number(s).

Type D4B-F, followed by 1, 2, 3 or 4, followed by 1, 2 or 3, followed by 11, 15, 1F or 1R, followed by F, may be followed by 1, followed by additional letter(s) and/or number(s).

Types ZE, ZV, ZV2 may be followed by -01 or Y, followed by N or Q, followed by 6 letters and/or numbers, may be followed by 2, may be followed by G, G1, S or Y, may be followed by TC or TH, may be followed by additional letters and/or numbers.

Type D4B followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 1, 2, 3, 4, 5, 6, 7, 8, A, B, C or D, followed by 1 thru 8 or 00, may be followed by up to two numbers or letters, followed by N, may be followed by LD or LE, may be followed by letters and/or numbers.

**Magnetically actuated interloc switches**, Models D40B-J1X, -J2X.

**Magnetically actuated switches**, Cat. Nos. D40B-1B3, D40B-1B10, D40B-1D3, D40B-1D10, D40B-A1, D40B-S1B3, D40B-S1B10, D40B-S1D3, D40B-S1D10, D40B-2B3, D40B-2B10, D40B-2D3, D40B-2D10, D40B-A2, D40B-S2B3, D40B-S2B10, D40B-S2D3, D40B-S2D10, D40B-3D5C, D40B-3E5C, D40B-A3, D40B-S3D5C, D40B-S3E5C, D40B-J1, D40B-J2.

**Non-contact safety door switch**, Model(+) D40A-1C followed by 2 or 5.

**Non-contact door switch**, Actuator only Model D40A-A1.

**Non-contact door switch**, Sensor only Model D40A-S1C followed by 2 or 5.

**Pendant enable switch**, Model A4EG- followed by B or C, followed by 00, E1, E2, M2, P1 or P2, followed by 0, B, R, Y or G, followed by 0, followed by 1, 2 or 4, followed by 0 or 1, may be followed by A, may be followed by letters B through Z, b through z, and/or numbers.

**Thermal overload relays**, Cat. Nos. j7TL-D2, -E2, -F2, j7TL-D, -E, -F, -A, -B, -C.

**Terminal relay**, Model F3SP-T01.

(+) = Additional functional safety investigation was completed to UL 991 and IEC 60947-5-3.

Last Updated on 2009-10-22

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### Auxiliary Devices Certified for Canada

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E76675

SAFETY STANDARDS GROUP  
IAB QUALITY & ENVIRONMENT DEPT  
SHIOKOJI HORIKAWA, SHIMOGYO-KU  
KYOTO, 600-8530 JAPAN

**Auxiliary contact blocks**, Cat. Nos. J73L-B, J73L-C, J7L-BR.

**Door lock switch**, Type D4GL followed by 1, 2, 3 or 4, followed by A through H or J through M, followed by B, F, L, R, D, E, G or H, followed by A, G or N, may be followed by A, B or C, may be followed by 4, may be followed by N, may be followed by additional letter(s) and/or number(s).

**Door switches**, Type D4BL Series, followed by 1, 2, 3, or 4, followed by C, D, E or F, followed by A, B, C, D, E, F, or G, followed by blank, A, B, C, D, E, or F, followed by blank, 12-30, or T, followed by blank or maximum 6 digits of letters and/or numbers.

Type D4GS may be followed by 1, 2, 3, or 4, may be followed by up to two letters and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-N followed by 1, 2, 3 or 4, followed by R or T, may be followed by 3, 5 or up to two letter and/or numbers, may be followed by up to six letters and/or numbers.

Type D4GS-NK followed by 1, 2 or 4, may be followed by E, may be followed by up to six letters and/or numbers.

, Type D4BS followed by 1, followed by 1, followed by B, F, L or R, followed by S, followed by F, followed by 1, may be followed by additional letter (s) and/or number(s).

**Hand mixer**, Model KJ-805.

**Interlock relay**, Cat. No. D9MCD1.

**Limit switches**, Type D4B-F, followed by 1, 2, 3 or 4, followed by 1, 2 or 3, followed by 11, 15, 1F or 1R, followed by F, may be followed by 1, followed by additional letter(s) and/or number(s).

Cat. No. D4C may be followed by C, followed by 1 or 2, may be followed by additional number or letters.

Type D4C may be followed by C, followed by 1, 2, 3, 4, 5 or 6, may be followed by additional suffix numbers.

Type D4C followed by 10, 20, 30, A0, C0 or D0 followed by a two digit number, followed by DRAJ01 or ARAJ01, may be followed by additional letter(s) and/or numbers.

Type D4BS followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 5, 6, 7, 8, A or B, followed by F, R, L or B, followed by S, may be followed by LD or LE, may be followed by additional numbers and/or letters.

Type D4A, Receptacle Cat. No. D4A- followed by 1000N through 6000N, 1000, 2000, 3000, 4000, 5000 or 6000, may be followed by additional numbers and/or letters; Actuator head Cat. No. D4A-00 followed by 01N through 06N, 07-HN, 07-VN, 08N through 12N or 14N through 20N or 24N, may be followed by additional letters and/or numbers; Body Cat. No. D4A-0 followed by 100N, 300N, 500N, 700N, 900N, may be followed by additional numbers and/or letters.

Type D4A, followed by 3, may be followed by E, followed by 01-06, 07-V, 07-H, 08-12, 14-20 or 24, may be followed by N, followed by GM or KGM, may be followed by additional letter(s) and/or number(s).

Type D4F, followed by 1 through 5, followed by 0 or 2, followed by 0, 2, 3, G or H, followed by a number, followed by R, L or D, may be followed by additional letters and/or numbers.



Type SHL, followed by D, Q or W, with or without 1 or 2 digit number, followed by 55, followed by a blank, followed by blank, L, L6 or L7, followed by blank, MD, ML or MR, followed by a blank, 2 or 3, followed by a blank, TC or TH, followed by blank or 11, followed by blank or T; followed by a blank or up to six additional letters and/or numbers.

Type WL may be followed by R, may be followed by 01, may be followed by A or B, may be followed by P, followed by C#, D#, G#, H#, NJ# or SD#, where # is up to a ten digit symbol of letters and/or numbers, may be followed by 10, 31 or RP, may be followed by P1, may be followed by 55, may be followed by T, TC, TC2 or TH, may be followed by 13##, PR4##, PR5## or RP6##, where ## is a one or two digit symbol of letters and/or numbers, may be followed by C, G, G1, TS or Y, may be followed by LD, LDN or LE, may be followed by A or F, may be followed by S, may be followed by DGJS03, DGJ###, DK1CJ###, DK1EJ###, M1J###, M1GJ###, M5J###, DHJS###, AGJ###, AK1EJ###, AK1J###, AK4EJ### or K###, where ### is up to a five digit symbol of letter(s) and/or number(s), may be followed by up to a five digit symbol of letters and/or numbers.

Type WL, may be followed by R, followed by C, D, G, H, NJ, or SD, followed by a number, may be followed by LD, followed by GM, KGM or K-GM, may be followed by additional letter(s) and/or number(s).

Types ZE, ZV, ZV2 may be followed by -01 or Y, followed by N or Q, followed by six letters and/or numbers, may be followed by 2, may be followed by G, G1, S or Y, may be followed by TC or TH, may be followed by additional letters and/or numbers.

Type D4B followed by -1, -2, -3, -4, -5, -6, -7 or -8, followed by 1, 2, 3, 4, 5, 6, 7, 8, A, B, C or D, followed by 1 thru 8 or 00, may be followed by up to two numbers or letters, followed by N, may be followed by LD or LE, may be followed by letters and/or numbers.

**Magnetically actuated switches**, Cat. Nos. D40B-1B3, D40B-1B10, D40B-1D3, D40B-1D10, D40B-A1, D40B-S1B3, D40B-S1B10, D40B-S1D3, D40B-S1D10, D40B-2B3, D40B-2B10, D40B-2D3, D40B-2D10, D40B-A2, D40B-S2B3, D40B-S2B10, D40B-S2D3, D40B-S2D10, D40B-3D5C, D40B-3E5C, D40B-A3, D40B-S3D5C, D40B-S3E5C, D40B-J1, D40B-J2.

**Non-Contact Safety Door Switch**, Model(+) D40A-1C, followed by 2 or 5.

**Non-contact door switch**, Actuator only Model D40A-A1.

**Non-contact door switch**, Sensor only Model D40A-S1C followed by 2 or 5.

**Pendant enable switch**, Model A4EG- followed by B or C, followed by 00, E1, E2, M2, P1 or P2, followed by 0, B, R, Y or G, followed by 0, followed by 1, 2 or 4, followed by 0 or 1, may be followed by A, may be followed by letters B through Z, b through z, and/or numbers.

**Switches**, Type D4NL followed by 1, 2, 3 or 4, followed by A through H, J through N or P, followed by B, D, E, F, G, L or R, followed by A, B, C, D, E, F, G, H, J, K or L, may be followed by A through F, may be followed by 4, may be followed by S, may be followed by Z, may be followed by additional letter(s) and/or number(s).

Type D4NS followed by 1 through 9 or A, B or C, followed by A through F, followed by B, D, E, F, G, H, L or R, may be followed by additional letter(s) and/or number(s).

Type D4N may be followed by A or H, followed by 1 through 9 or A, B or C, followed by 1, 2 or A through G, followed by 20, 21, 21-TK, 22 through 29, 2B, 2C, 2D, 2G, 2H, 2J, 2L, 31, 32, 34, 62, 63, 72, 80, 87, RE, LE, AS, BC or AS1, may be followed by R, may be followed by additional letter(s) and/or number(s).

Type D4N, followed by blank, followed by 9, followed by 1, followed by 20, followed by GP.

Type D4JL, followed by 1, 2, 3 or 4, followed by A through H, J through N or P through R, followed by D or F, followed by A, G or K, followed by C or D, followed by 5, 6 or 7, followed by blank, followed by blank, Y or Z, may be followed by four alphanumeric code, may be followed by 6 digit maximum alphanumeric code.

**Terminal relay**, Model F3SP-T01.

**Thermal overload relays**, Cat. Nos. j7TL-D2, -E2, -F2, 7TL-D, -E, -F, -A, -B, -C.

(+) = Additional functional safety investigation was completed to UL 991 and IEC IEC 60947-5-3.



Trademark and/or Tradename:

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