Gutachten *Technical Report*

mit Fertigungsüberwachung *with Production Inspection*

TÜV Rheinland

Registrier Nr. *Registration No.* **Blatt** *Page*

J 9551802 01

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum** *Date of Issue (day/mo/yr)*
95-306-055	943-MM/yy-E 9561115E01	25.10.1995

Antragsteller *Applicant*

Idec Izumi Corp.

1-7-31 Nishi-Miyahara
Yodogawa-ku, Osaka 532
Japan

Fertigungsstätte *Manufacturing Plant*

Idec Izumi Corp.
Kyoto Plant
20 Ohari, Kotari
Nagaokakyo-shi, Kyoto 617
Japan

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Geprüft nach *Tested acc. to*

EN 60947-1:1991+A11 (excluding Sub-clause 7.1.10.1)
EN 60947-5-1:1991 (excluding Sub-clauses 6.3.1, 6.3.2)

Zertifiziertes Produkt **(Geräteidentifikation)** *Certified Product* *(Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

DRUCKTASTER MIT ZWANGSÖFFNUNG (Pushbutton with positive opening)

Model	:	TW/TWS series	5
Type designation	:	abcdefghijklm (see appendix 1)	5
Anticipated field of application	:	For installation through the panel of an enclosure of unspecified size	

Switching units with positive opening: HW-C01 and HW-F01 only

Utilization category	:	AC-15	DC-13
Operational voltage	:	250V	125V
Operational current	:	3A	1,1A

10

Product Safety · Quality Assurance · TÜV Rheinland · Approved

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle *Der Stellvertreter*

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Dipl. - Ing. K. Heinz

Gutachten *Technical Report*

mit Fertigungsüberwachung *with Production Inspection*

TÜV Rheinland

Registrier Nr. *Registration No.*
J 9551802

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02

Ihr Zeichen *Client Reference*
95-306-199

Unser Zeichen *Our Reference*
00943-MM/elu- E9561115E01

Ausstellungsdatum *Date of Issue (day/mo/yr)*
11.03.96

Antragsteller *Applicant*
Idec Izumi Corp.
Standards & Records

1-7-31 Nishi-Miyahara
532 Yodogawa-ku, Osaka
Japan

Fertigungsstätte *Manufacturing Plant*
Idec Izumi Taiwan Corp.

No. 87
Swi Kuan Road, Chu Hou Village
Jen Wu Country
Kaohsiung Hsien 814
TAIWAN

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 (excluding Sub-clause 7.1.10.1)
EN 60947-5-1:1991 (excluding Sub-clause 6.3.1)

Zertifiziertes Produkt **(Geräteidentifikation)**
Certified Product *(Product Identification)*

Lizenzentgelte - Einheit
License Fee - Unit

Pushbutton with positive opening

Addition

Factory : see above

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ANLAGE (Appendix): 1

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Approved

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle
Der Stellvertreter

Dipl.-Ing. K. Heinz

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

10/020 7.95Q

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV Rheinland

Zertifikat Nr. *Certificate No.*
J 9551802

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03

Ihr Zeichen *Client Reference*
96-306-213

Unser Zeichen *Our Reference*
00943-CSH/ey- E9561115Z02

Ausstellungsdatum *Date of Issue (day/mo/yr)*
28.02.97

Genehmigungsinhaber *License Holder*
Idec Izumi Corp.

1-7-31 Nishi-Miyahara
Yodogawa-ku, Osaka 532
Japan

Fertigungsstätte *Manufacturing Plant*
Idec Izumi Taiwan Corp.
No. 87
Swi Kuan Road, Chu Hou Village
Jen Wu Country
Kaohsiung Hsien 814
TAIWAN, R.O.C.

TÜV Rheinland

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 (excluding Sub-clause 7.1.10.1)
EN 60947-5-1:1991 (excluding Sub-clause 6.3.1)

Zertifiziertes Produkt **(Geräteidentifikation)** **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

Pushbutton with positive opening

Addition

Operator Units:

Type Designation: AVLx (Pushlock Turn Reset Illuminated Type) 1
x = W, WD, S

Transformers:

Type Designation: TW, TWS 1

Rated Operational Voltage: see appendix 1.1

2

ANLAGE (Appendix): 1, 1.1

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle
Der Stellvertreter

Product Safety · Quality Assurance
TÜV Rheinland
Approved

Dipl.-Ing. K. Heinz

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV Rheinland

Zertifikat Nr. *Certificate No.* J 9551802

Blatt *Page* 04

Ihr Zeichen *Client Reference* 96-306-213

Unser Zeichen *Our Reference* 00943-CSH/ey- E9561115Z02

Ausstellungsdatum *Date of Issue (day/mo/yr)* 28.02.97

Genehmigungsinhaber *License Holder*
Idec Izumi Corp.

1-7-31 Nishi-Miyahara
Yodogawa-ku, Osaka 532
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Fertigungsstätte *Manufacturing Plant*
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No. 87
Swi Kuan Road, Chu Hou Village
Jen Wu Country
Kaohsiung Hsien 814
TAIWAN, R.O.C.

TÜV Rheinland

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 (excluding Sub-clause 7.1.10.1)
EN 60947-5-1:1991 (excluding Sub-clause 6.3.1)

Zertifiziertes Produkt *Certified Product* **(Geräteidentifikation)** *(Product Identification)* **Lizenzentgelte - Einheit** *License Fee - Unit*

Pushbutton with positive opening

Addition

Direct Adapter:

Type Designation: TW-DA1/F, HW-DA1/F 1

Rated Operational Voltage: 30V

Pushbutton with positive opening:

Type Designation: AVL series (see appendix 1.1)

1

ANLAGE (Appendix): 1, 1.1

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle
Der Stellvertreter

Dipl.-Ing. K. Heinz

Product Safety · Quality Assurance
TÜV Rheinland
Approved

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

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Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV Rheinland

Zertifikat Nr. *Certificate No.* J 9551802

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Ihr Zeichen *Client Reference* 96-306-213

Unser Zeichen *Our Reference* 00943-CSH/ey- E9561115Z02

Ausstellungsdatum *Date of Issue (day/mo/yr)* 28.02.97

Genehmigungsinhaber *License Holder*
Idec Izumi Corp.

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Fertigungsstätte *Manufacturing Plant*
Idec Izumi Taiwan Corp.
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Jen Wu Country
Kaohsiung Hsien 814
TAIWAN, R.O.C.

TÜV Rheinland

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 (excluding Sub-clause 7.1.10.1)
EN 60947-5-1:1991 (excluding Sub-clause 6.3.1)

Zertifiziertes Produkt *Certified Product* **(Geräteidentifikation)** *(Product Identification)* **Lizenzentgelte - Einheit** *License Fee - Unit*

Pushbutton with positive opening

Addition

Operator Units:

Type Designation: AXHx (Pushlock Key Reset Type) 1
x = W, WD

Pushbutton with positive opening:

Type Designation: AXH series (see appendix 1.2)

1

ANLAGE (Appendix): 1, 1.1, 1.2

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Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle
Der Stellvertreter

Product Safety · Quality Assurance · TÜV Rheinland · Approved

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Dipl.-Ing. K. Heinz

10/020 7.95Q

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV Rheinland

Zertifikat Nr. *Certificate No.*
J 9551802

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06

Ihr Zeichen *Client Reference*
98-306-005

Unser Zeichen *Our Reference*
00143-CSH/nta E9561115Z03

Ausstellungsdatum *Date of Issue (day/mo/yr)*
12.03.98

Genehmigungsinhaber *License Holder*
Idec Izumi Corp.

1-7-31 Nishi-Miyahara
Yodogawa-ku, Osaka 532-0009
Japan

Fertigungsstätte *Manufacturing Plant*
Idec Izumi Taiwan Corp.
No. 87
Swi Kuan Road, Chu Hou Village
Jen Wu Country
Kaohsiung Hsien 814
TAIWAN, R.O.C.

TÜV Rheinland

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 excluding Sub-clause 7.1.10.1
EN 60947-5-1:1991 excluding Sub-clauses 6.3.1

Zertifiziertes Produkt **(Geräteidentifikation)** **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

Pushbutton with positive opening

Addition

Transformers
Type designation: HW-L, HW-T
Rated Values : see Appendix 1.3 — 1

Direct Adapter
Type Designation: HW-GA1
Rated Operational Voltage: 30V — 1

2

ANLAGE (Appendix): 1, 1.1, 1.2, 1.3

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH
TÜV Rheinland
Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Dipl.-Ing. M. Borgmann

10/020 7.95Q

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV Rheinland

Zertifikat Nr. *Certificate No.*
J 9551802

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07

Ihr Zeichen *Client Reference*
98-306-005

Unser Zeichen *Our Reference*
00143-CSH/nta E9561115Z03

Ausstellungsdatum *Date of Issue (day/mo/yr)*
12.03.98

Genehmigungsinhaber *License Holder*
Idec Izumi Corp.

1-7-31 Nishi-Miyahara
Yodogawa-ku, Osaka 532-0009
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Fertigungsstätte *Manufacturing Plant*
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Swi Kuan Road, Chu Hou Village
Jen Wu Country
Kaohsiung Hsien 814
TAIWAN, R.O.C.

TÜV Rheinland

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 excluding Sub-clause 7.1.10.1
EN 60947-5-1:1991 excluding Sub-clause 6.3.1

Zertifiziertes Produkt *Certified Product* **(Geräteidentifikation)** *(Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

Pushbutton with positive opening

Addition

Switching Unit with positive opening

Type designation: HW-G01

1

Utilization Category: AC-15 DC-13
Rated Voltage : 250 V 125 V
Rated Current : 3A 1,1A

1

ANLAGE (Appendix): 1, 1.1, 1.2, 1.3

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH
TÜV Rheinland
Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Dipl.-Ing. M. Borgmann

10/020 7.95Q

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV Rheinland

Zertifikat Nr. *Certificate No.* J 9551802

Blatt *Page* 08

Ihr Zeichen *Client Reference* 99-306-008

Unser Zeichen *Our Reference* 00143-THI/sot E9561115Z04

Ausstellungsdatum *Date of Issue (day/mo/yr)* 03.03.99

Genehmigungsinhaber *License Holder*
Idec Izumi Corp.

1-7-31 Nishi-Miyahara
Yodogawa-ku, Osaka 532-8550
JAPAN

Fertigungsstätte *Manufacturing Plant*
Idec Izumi Taiwan Corp.
No. 87
Swi Kuan Road, Chu Hou Village
Jen Wu Country
Kaohsiung Hsien 814
TAIWAN, R.O.C.

TÜV Rheinland

Geprüft nach *Tested Acc. to*

EN 60947-1:1991+A11 excluding Sub-clause 7.1.10.1
EN 60947-5-1:1991 excluding Sub-clause 6.3.1

Zertifiziertes Produkt **(Geräteidentifikation)** **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

Pushbutton with positive opening

Additions

Dummy Block

Type Designation : HW-GD

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LED Lamp

Type Designations: LSTD-6 (AC/DC 6V, 0,5W) 1
LSTD-1 (AC/DC 12V, 0,5W)
LSTD-2 (AC/DC 24V, 0,5W)

1

ANLAGE (Appendix): 1, 1.1, 1.2, 1.3

TÜV Rheinland Product Safety GmbH TÜV Rheinland Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

Dipl.-Ing. W. Herlitschke

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Genehmigungsausweis Nr. Licence No.	Aktenzeichen File No.	Anlage Nr. Attachement
J 9551802	943-MM/yy-E 9561115E01	1

Genehmigungsinhaber : IDEC IZUMI Corporation
Licence holder 7-31 Nishimiyahara 1-Chome, Yodogawa-Ku, Osaka 532, Japan

Von der Prüfstelle auszufüllen/to be filled out by TÜV

Type Designation for final product (Operator + Contact block and/or Transformer/Direct adaptor, Lamp)

A	V	_	W	1	___	_	_	1 1	_	N	E	R
①	②	③	④	⑤	⑥	⑦	⑧	⑧	⑩	⑪	⑫	⑬

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① Degree of protection
- A ——— IP65

② Operator function
- V ——— Pushlock turn reset

③ Non-illuminated or illuminated
- None —— Non-illuminated type

④ Series
- W ——— TW series, Mounting hole; 22mm
- WD —— TW series (operator sleeve constructed of die-cast zinc), Mounting hole; 22mm
- S ——— TWS series, Mounting hole; 25mm

⑤ Operator shape
- 3 —— Mushroom
- 4 —— Jumbo mushroom

⑥ Primary voltage
- None — Non-illuminated type

⑦ Applicable lamp
- None — Non-illuminated type

⑧ Applicable transformer
- None — Non-illuminated type

⑨ Contact configuration (Applicable contact block)
- 0 1 — 1 ×HW-C01 or 1 ×HW-F01
- 1 1 — 1 ×HW-C10 + 1 ×HW-C01 or 1 ×HW-F10 + 1 ×HW-F01
- 0 2 — 2 ×HW-C01 or 2 ×HW-F01
- 2 1 — 2 ×HW-C10 + 1 ×HW-C01 or 2 ×HW-F10 + 1 ×HW-F01
- 1 2 — 1 ×HW-C10 + 2 ×HW-C01 or 1 ×HW-F10 + 2 ×HW-F01
- 0 3 — 3 ×HW-C01 or 3 ×HW-F01
- 3 1 — 3 ×HW-C10 + 1 ×HW-C01 or 3 ×HW-F10 + 1 ×HW-F01
- 2 2 — 2 ×HW-C10 + 2 ×HW-C01 or 2 ×HW-F10 + 2 ×HW-F01
- 1 3 — 1 ×HW-C10 + 3 ×HW-C01 or 1 ×HW-F10 + 3 × HW-F01
- 0 4 — 4 ×HW-C01 or 4 ×HW-F01
- 2 S — 1 ×HW-C01 + 1 ×HW-C01R or 1 ×HW-F01 + 1 ×HW-F01R

To be continued on page 5

Köln, den 25.10.95

TÜV Rheinland Zertifizierungs- und Prüfstelle für Gerätesicherheit

Osaka
Ort/Place

28 09 1995
Datum/Date

Yoshida
Stempel, Unterschrift (Stamp and Signature of applicant)

5 S — 1 ×HW-C10 + 1 ×HW-C01 + 1 ×HW-C10R + 1 ×HW-C01R
or 1 ×HW-F10 + 1 ×HW-F01 + 1 ×HW-F10R + 1 ×HW-F01R
6 S — 2 ×HW-C10 + 1 ×HW-C01 + 1 ×HW-C01R
or 2 ×HW-F10 + 1 ×HW-F01 + 1 ×HW-F01R
9 S — 1 ×HW-C10 + 2 ×HW-C01 + 1 ×HW-C10R
or 1 ×HW-F10 + 2 ×HW-F01 + 1 ×HW-F10R

⑩ Applicable lamp
None — Non-illuminated type

⑪ Series
None — TW series
N —— TWS series

⑫ Ring material
None — Aluminium
E —— Plastic

⑬ Button color
R —— Red

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To be continued on page 6

Köln, den 25.10.95

TÜV Rheinland Zertifizierungs- und Prüfstelle für Gerätesicherheit

Osaka
Ort/Place

28 09 1995
Datum/Date

Stempel, Unterschrift (Stamp and Signature of applicant)

Constructional Data Form for Electromechanical control circuit device

Type Designation for pushbutton switches (Operator + Contact block and/or Transformer/Direct adaptor, Lamp)

A	V	L	W	3	B	2 3	6	S	1 1	D	N	E	R
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭

① Degree of protection
- A —— IP65

② Operator function
- V —— Pushlock turn reset

③ Non-illuminated or illuminated
- L —— Illuminated type

④ Series
- W —— TW series, Mounting hole: 22mm
- WD — TW series (operator sleeve constructed of die-cast zinc), Mounting hole: 22mm
- S —— TWS series, Mounting hole: 25mm

⑤ Operator shape
- 3 —— Mushroom
- 4 —— Jumbo mushroom

⑥ Marking type lens
- B —— Marking type lens
- None — Non-marking type lens

⑦ Primary voltage
- 1 —— 100/110V
- 1 1 — 115V
- 1 2 — 120V
- 2 —— 200/220V
- 2 3 — 230V
- 2 4 — 240V
- 3 8 — 380V
- 4 —— 400/440V
- 4 8 — 480V
- 6 —— without transformer, 6V
- 1 —— without transformer, 12V for LED lamp
- 8 —— without transformer, 12V for incandescent lamp
- 2 —— without transformer, 24/28V for LED lamp
- 3 —— without transformer, 24V for incandescent lamp
- 9 —— without transformer, without lamp

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Köln, den 27 2.'97. CSH

TÜV Rheinland
Product Safety GmbH

Osaka, Japan
(Place)

09.09.1996
(Date)

Yoshida
(Stamp and Signature of Applicant)

Constructional Data Form for Electromechanical control circuit device

⑧ Applicable lamp
- 6 —— 6V LED lamp / 6.3V incandescent lamp
- 1 —— 12V LED lamp
- 2 —— 24V LED lamp
- 2 T — 28V LED lamp
- 8 —— 18V incandescent lamp
- 3 —— 30V incandescent lamp
- 9 —— without lamp

⑨ Applicable transformer
- S —— Type TWS
- None — Type TW

⑩ Contact configuration (Applicable contact block)

0 1	—	1 x HW-C01	or	1 x HW-F01	or	1 x HW-G01					
1 1	—	1 x HW-C10	+	1 x HW-C01	or	1 x HW-F10	+	1 x HW-F01	or		
		1 x HW-G10	+	1 x HW-G01							
0 2	—	2 x HW-C01	or	2 x HW-F01	or	2 x HW-G01					
2 1	—	2 x HW-C10	+	1 x HW-C01	or	2 x HW-F10	+	1 x HW-F01	or		
		2 x HW-G10	+	1 x HW-G01							
1 2	—	1 x HW-C10	+	2 x HW-C01	or	1 x HW-F10	+	2 x HW-F01	or		
		1 x HW-G10	+	2 x HW-G01							
0 3	—	3 x HW-C01	or	3 x HW-F01	or	3 x HW-G01					
3 1	—	3 x HW-C10	+	1 x HW-C01	or	3 x HW-F10	+	1 x HW-F01	or		
		3 x HW-G10	+	1 x HW-G01							
2 2	—	2 x HW-C10	+	2 x HW-C01	or	2 x HW-F10	+	2 x HW-F01	or		
		2 x HW-G10	+	2 x HW-G01							
1 3	—	1 x HW-C10	+	3 x HW-C01	or	1 x HW-F10	+	3 x HW-F01	or		
		1 x HW-G10	+	3 x HW-G01							
0 4	—	4 x HW-C01	or	4 x HW-F01	or	4 x HW-G01					
2 S	—	1 x HW-C01	+	1 x HW-C01R	or	1 x HW-F01	+	1 x HW-F01R	or		
		1 x HW-G01	+	1 x HW-G01R							
5 S	—	1 x HW-C10	+	1 x HW-C01	+	1 x HW-C10R	+	1 x HW-C01R	or		
		1 x HW-F10	+	1 x HW-F01	+	1 x HW-F10R	+	1 x HW-F01R	or		
		1 x HW-G10	+	1 x HW-G01	+	1 x HW-G10R	+	1 x HW-G01R			
6 S	—	2 x HW-C10	+	1 x HW-C01	+	1 x HW-C01R	or				
		2 x HW-F10	+	1 x HW-F01	+	1 x HW-F01R	or				
		2 x HW-G10	+	1 x HW-G01	+	1 x HW-G01R					
9 S	—	1 x HW-C10	+	2 x HW-C01	+	1 x HW-C10R	or				
		1 x HW-F10	+	2 x HW-F01	+	1 x HW-F10R	or				
		1 x HW-G10	+	2 x HW-G01	+	1 x HW-G10R					

⑪ Applicable lamp
- None — Incandescent lamp
- D —— LED lamp

⑫ Series
- None — TW series
- N —— TWS series

⑬ Ring material
- None — Aluminium
- E —— Plastic

⑭ Lens color / button color
- R —— Red

Final page

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Köln, den 27 2.97. CSH

TÜV Rheinland
Product Safety GmbH

Osaka, Japan
(Place)

09.09.1996
(Date)

(Stamp and Signature of Applicant)

Constructional Data Form for Electromechanical control circuit device

Type designation for final product (Operator + Contact block)

A	X	H	W	3	11	N	E	R
①	②	③	④	⑤	⑥	⑦	⑧	⑨

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① Degree of protection
- A —— IP54

② Operator function
- X —— Pushlock key reset

③ Bezel shape
- None —— Round / Octagonal
- H —— Square with round operator

④ Series
- W —— TW series, Mounting hole; 22mm
- WD —— TW series (operator sleeve constructed of die-cast zinc), Mounting hole; 22mm

⑤ Operator shape
- 3 —— Mushroom
- 4 —— Jumbo mushroom

⑥ Contact configuration (Applicable contact block)

0 1	1 x HW-C01	or	1 x HW-F01	or	1 x HW-G01						
1 1	1 x HW-C10	+	1 x HW-C01	or	1 x HW-F10	+	1 x HW-F01	or			
	1 x HW-G10	+	1 x HW-G01								
0 2	2 x HW-C01	or	2 x HW-F01	or	2 x HW-G01						
2 1	2 x HW-C10	+	1 x HW-C01	or	2 x HW-F10	+	1 x HW-F01	or			
	2 x HW-G10	+	1 x HW-G01								
1 2	1 x HW-C10	+	2 x HW-C01	or	1 x HW-F10	+	2 x HW-F01	or			
	1 x HW-G10	+	2 x HW-G01								
0 3	3 x HW-C01	or	3 x HW-F01	or	3 x HW-G01						
3 1	3 x HW-C10	+	1 x HW-C01	or	3 x HW-F10	+	1 x HW-F01	or			
	3 x HW-G10	+	1 x HW-G01								
2 2	2 x HW-C10	+	2 x HW-C01	or	2 x HW-F10	+	2 x HW-F01	or			
	2 x HW-G10	+	2 x HW-G01								
1 3	1 x HW-C10	+	3 x HW-C01	or	1 x HW-F10	+	3 x HW-F01	or			
	1 x HW-G10	+	3 x HW-G01								
0 4	4 x HW-C01	or	4 x HW-F01	or	4 x HW-G01						
2 S	1 x HW-C01	+	1 x HW-C01R	or	1 x HW-F01	+	1 x HW-F01R	or			
	1 x HW-G01	+	1 x HW-G01R								
5 S	1 x HW-C10	+	1 x HW-C01	+	1 x HW-C10R	+	1 x HW-C01R	or			
	1 x HW-F10	+	1 x HW-F01	+	1 x HW-F10R	+	1 x HW-F01R	or			
	1 x HW-G10	+	1 x HW-G01	+	1 x HW-G10R	+	1 x HW-G01R				
6 S	2 x HW-C10	+	1 x HW-C01	+	1 x HW-C01R	or					
	2 x HW-F10	+	1 x HW-F01	+	1 x HW-F01R	or					
	2 x HW-G10	+	1 x HW-G01	+	1 x HW-G01R						
9 S	1 x HW-C10	+	2 x HW-C01	+	1 x HW-C10R	or					
	1 x HW-F10	+	2 x HW-F01	+	1 x HW-F10R	or					
	1 x HW-G10	+	2 x HW-G01	+	1 x HW-G10R						

⑦ Series
- None —— TW series
- N —— TWS series

⑧ Ring material
- None —— Aluminium or Plastic
- E —— Plastic

⑨ Button color
- R —— Red

Final page

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TÜV Rheinland Product Safety GmbH

Osaka, Japan
(Place)

09.09.1996
(Date)

Yoshida
(Stamp and Signature of Applicant)

Constructional Data Form

Type Designation for Pushbutton switches (Operator + Contact block and/or Transformer/Direct adapter, Lamp)

A	V	L	H	W	3	B	23	6	S	11	D	N	E	R
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮

① Degree of protection
- A ------- IP65

② Operator function
- V ------- Pushlock turn reset
- X ------- Pushlock key reset

③ Non-illuminated or illuminated
- None ----- Non-illuminated type
- L ------- Illuminated type

④ Bezel shape
- None ----- Round/Octagonal
- H -------- Square with round operator

⑤ Series
- W ------- TW series, Mounting hole: 22mm
- WD ------ TW series (operator sleeve construction of die-cast zinc), Mounting hole: 22mm
- S ------- TWS series, Mounting hole: 25mm

⑥ Operator shape
- 3 ------- Mushroom
- 4 ------- Jumbo mushroom

⑦ Marking type lens
- B -------- Marking type lens
- None ----- Non-marking type lens

⑧ Primary voltage
- 1 ------- 100/110V
- 1 1 ------ 115V
- 1 2 ------ 120V
- 2 ------ 200/220Vor without transformer, 24V for LED lamp
- 2 3 ------ 230V
- 2 4 ------ 240V
- 3 8 ------ 380V ------HW-L only
- 4 ------ 400/440V------HW-L only
- 4 8 ------ 480V ------HW-L only
- 6 ------ Without transformer, 6V
- 1 ------ Without transformer, 12V for LED lamp
- 8 ------ Without transformer, 12V for incandescent lamp
- 2 ------ Without transformer, 24V for LED lamp
- 3 ------ Without transformer, 24V for incandescent lamp
- 9 ------ Without transformer, without lamp

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Osaka
(Place)

29.01.1998
(Date)

(Stamp and Signature of Applicant)

Constructional Data Form

⑨ Applicable lamp
- 6 ------6V LED lamp / 6.3V incandescent lamp
- 1 ------12V LED lamp
- 2 ------24V LED lamp
- 2T ------28V LED lamp
- 8 ------18V incandescent lamp
- 3 ------30V incandescent lamp
- 9 ------Without lamp

⑩ Applicable transformer
- None ---- Type HW-L or HW-T

⑪ Contact configuration (Applicable contact block)
- 0 1 -----1 x HW-G01
- 1 1 -----1 x HW-G10 + 1 x HW-G01
- 0 2 -----2 x HW-G01
- 2 1 -----2 x HW-G10 + 1 x HW-G01
- 1 2 -----1 x HW-G10 + 2 x HW-G01
- 0 3 -----3 x HW-G01
- 3 1 -----3 x HW-G10 + 1 x HW-G01
- 2 2 -----2 x HW-G10 + 2 x HW-G01
- 1 3 -----1 x HW-G10 + 3 x HW-G01
- 0 4 -----4 x HW-G01
- 2 S------1 x HW-G01 + 1 x HW-G01R
- 5 S----- 1 x HW-G10 + 1 x HW-G01 + 1 x HW-G10R + 1 x HW-G01R
- 6 S------2 x HW-G10 + 1 x HW-G01 + 1 x HW-G01R
- 9 S----- 1 x HW-G10 + 2 x HW-G01 + 1 x HW-G10R

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⑫ Applicable lamp
- None ---- Incandescent lamp
- D ------ LED lamp

⑬ Series
- None ---- TW series
- N ------ TWS series

⑭ Ring material
- None ---- Aluminum
- E ------- Plastic

⑮ Lens color / button color
- R ------- Red

Final page

Köln, den 12 3.'98

CSH
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Product Safety GmbH

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