

# Zertifikat Certificate

überwachter Konformität

of surveyed conformity



Zertifikat Nr. Certificate No. Blatt Page

J 9650810

01

Ihr Zeichen Client Reference  
M.E.

Unser Zeichen Our Reference  
943-DA/eo- E 9661020E01

Ausstellungsdatum Date of Issue  
08.10.96 (day/mo/yr)

Genehmigungsinhaber License Holder

Sato Parts Co., Ltd.  
3-3-3 Ebisu  
Shibuya-ku, Tokyo 150  
Japan

Fertigungsstätte Manufacturing Plant

Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe, Mishima-machi  
Santo-gun, Niigata 940-23  
Japan

Geprüft nach Tested acc. to

EN 60947-1:1991+A1+A2+A11

EN 60947-7-1:10.91

Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

PCB-mounted Terminal Block

Type Designation : ML-800 series (see Appendix 1) 5

Rated Current : 10A

Rated Voltage : 250V

Pollution Degree : 3

Overvoltage Category : III

For additional rated values see Appendix 1.

Remark: This certificate replaces J 9650810, page 01  
dated 26.09.1996.

5

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

A handwritten signature in black ink, appearing to read 'K. Heinz'.

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

Dipl. - Ing. K. Heinz



# Zertifikat Certificate

mit überwachter Konformität

of surveyed conformity



Zertifikat Nr. Certificate No.  
J 9650810

Blatt Page  
02

Ihr Zeichen Client Reference  
ML-800-2

Unser Zeichen Our Reference  
00143- NA/sot E9661020N03

Ausstellungsdatum Date of Issue  
30.10.98 (day/mo/yr)

Genehmigungsinhaber License Holder  
Sato Parts Co., Ltd.  
3-3-3 Ebisu  
Shibuya-ku, Tokyo 150-0013  
JAPAN

Fertigungsstätte Manufacturing Plant  
Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe, Mishima-machi  
Santo-gun, Niigata 940-2316  
JAPAN



Geprüft nach Tested Acc. to  
EN 60947-1:1991+A11  
EN 60947-7-1:1997

Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

PCB-mounted Terminal Block  
Change

Test Requirement : EN 60947-7-1:10.91  
changed to : (see above)

Addition

Type Designation : ML-800 series  
(see Appendix 1.1)

1

Rated Voltage : AC/DC 250 V  
Ambient Air Temperature : -20°C to 50°C  
Contact Material : Copper Alloy

For additional rated values see Appendix 1.1.

1

ANLAGE (Appendix): 1, 1.1



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.

Dipl.-Ing. W. Herlitschke

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

# Zertifikat

mit überwachter Konformität

# Certificate

of surveyed conformity



Zertifikat Nr. *Certificate No.*  
J 9650810

Blatt *Page*  
03

Ihr Zeichen *Client Reference*  
ML-800-4

Unser Zeichen *Our Reference*  
ZJ-BWE- 09661020 005

Ausstellungsdatum  
02.10.2001

*Date of Issue*  
(day/month/year)

**Genehmigungsinhaber *License Holder***

Sato Parts Co., Ltd.  
3-3-3 Ebisu  
SHIBUYA-KU, TOKYO 150-0013  
JAPAN

**Fertigungsstätte *Manufacturing Plant***

Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe, Mishima-machi  
SANTO-GUN, NIIGATA 940-2316  
JAPAN



Geprüft nach *Tested acc. to*  
EN 60947-1:1999+A1  
EN 60947-7-1:1991+A1

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

PCB-mounted Terminal Block

Change

Test Requirements : (see above)



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, Am Grauen Stein, D-51105 Köln

Dipl.-Ing. W. Nölke

# Zertifikat

mit überwachter Konformität

# Certificate

of surveyed conformity



Zertifikat Nr. *Certificate No.*  
J 9650810

Blatt *Page*  
04

Ihr Zeichen *Client Reference*  
ML-800-6

Unser Zeichen *Our Reference*  
ZO-BWE- 09661020 007

Ausstellungsdatum  
20.03.2003

*Date of Issue*  
(day/month/year)

Genehmigungsinhaber *License Holder*  
Sato Parts Co., Ltd.  
3-3-3 Ebisu  
Shibuya-ku, Tokyo 150-0013  
Japan

Fertigungsstätte *Manufacturing Plant*  
Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe, Mishima-machi  
Santo-gun, Niigata 940-2316  
Japan

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*



EN 60947-7-1:1991+A1

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

PCB-mounted Terminal Block

Addition

Rated Cross Section : AWG24/0.2mm<sup>2</sup> (flexible)

Remark : Test Requirement EN 60947-1 not anymore mentioned,  
since included in EN 60947-7-1.



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

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

Dipl.-Ing. W. Nölke

# Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 9650810

Blatt *Page*  
05

Ihr Zeichen *Client Reference*  
MK2005

Unser Zeichen *Our Reference*  
ZJL-VSZ- 09661020 008

Ausstellungsdatum  
03.06.2005

*Date of Issue*  
(day/month/year)

**Genehmigungsinhaber *License Holder***  
Sato Parts Co., Ltd.  
3-3-3 Ebisu  
Shibuya-ku, Tokyo 150-0013  
Japan

**Fertigungsstätte *Manufacturing Plant***  
Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe  
Nagaoka-shi, Niigata 940-2316  
Japan

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2002

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

PCB-mounted Terminal Block

Changes

Test Requirement : EN 60947-7-1:1991+A1

changed to : (see above)

Address of Factory : Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe, Mishima-machi  
Santo-gun, Niigata 940-2316  
Japan

changed to : (see above)



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.

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

Dipl.-Ing. W. Herlitschke

**Zertifikat** *Certificate*  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 9650810

Blatt *Page*  
06

Ihr Zeichen *Client Reference*  
MK2005

Unser Zeichen *Our Reference*  
ZJL-MIU- 09661020 009

Ausstellungsdatum  
01.06.2012

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

Genehmigungsinhaber *License Holder*  
Sato Parts Co., Ltd.  
3-3-3 Ebisu  
Shibuya-ku, Tokyo  
150-0013 JAPAN

Fertigungsstätte *Manufacturing Plant*  
Niigata Sato Parts Co., Ltd.  
2255-2 Torigoe  
Nagaoka-shi, Niigata  
940-2316 JAPAN

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2009

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

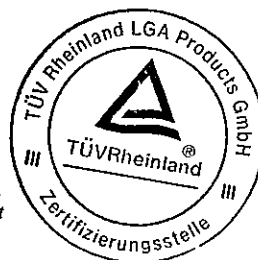
PCB-mounted Terminal Block, as page 0001

Change

Test Requirement : EN 60947-7-1:2002

changed to : (see above)

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 LGA Products GmbH, Tillystraße 2, 90431 Nürnberg  
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 <http://www.tuv.com/safety>

Dipl.-Ing. (FH) M. Geiser

**Zertifikat** *Certificate*  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 9650810

Blatt *Page*  
07

Ihr Zeichen *Client Reference*  
FACH-NGT

Unser Zeichen *Our Reference*  
ZJL-MAA- 09661020 009

Ausstellungsdatum  
30.04.2015

*Date of Issue*  
(day/month/year)

Genehmigungsinhaber *License Holder*  
Sato Parts Co., Ltd.  
3-3-3 Ebisu  
Shibuya-ku, Tokyo  
150-0013 JAPAN

Fertigungsstätte *Manufacturing Plant*  
Sato Parts Co., Ltd. Niigata Factory  
2255-2 Torigoe  
Nagaoka-shi, Niigata  
940-2316 JAPAN

**Prüfzeichen** *Test Mark*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2009

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

PCB-mounted Terminal Block, as page 0001

Change

Name of Factory: Niigata Sato Parts Co., Ltd.

changed to: (see above)



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.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg  
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 <http://www.tuv.com/safety>

Vilmos Sztaroveczi

**Zertifikat**      **Certificate**  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*      Blatt *Page*  
J 9650810      08

Ihr Zeichen *Client Reference*      Unser Zeichen *Our Reference*      Ausstellungsdatum      *Date of Issue*  
TUV-ADD-CH      ZJL-MAA- 09661020 009      27.09.2016      (day/mo/yr)

Genehmigungsinhaber *License Holder*  
Sato Parts Co., Ltd.  
3F Sanyu Bldg. 3-42-1, Hongo  
Bunkyo-ku, Tokyo  
113-0033 Japan

Fertigungsstätte *Manufacturing Plant*  
Sato Parts Co., Ltd. Niigata Factory  
2255-2 Torigoe  
Nagaoka-shi, Niigata  
940-2316 Japan

**Prüfzeichen** *Test Mark*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2009

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

PCB-mounted Terminal Block, as page 0001

Change

Address of  
License Holder:      3-3-3 Ebisu, Shibuya-ku, Tokyo  
150-0013 JAPAN

changed to:      (see above)



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 LGA Products GmbH, Tillystraße 2, 90431 Nürnberg  
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety

Vilmos Sztaroveczki



**Zertifikat**      *Certificate*  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*      Blatt *Page*  
J 9650810      09

<i>Ihr Zeichen Client Reference</i>	<i>Unser Zeichen Our Reference</i>	<i>Ausstellungsdatum</i>	<i>Date of Issue</i> <i>(day/mo/yr)</i>
ADD-CH	ZJL-MAA- 09661020 009	27.02.2020	

<i>Genehmigungsinhaber License Holder</i>	<i>Fertigungsstätte Manufacturing Plant</i>
Sato Parts Co., Ltd. 3-3-8, Sotokanda, Chiyoda-ku, Tokyo 101-0021 Japan	Sato Parts Co., Ltd. Niigata Factory 2255-2 Torigoe Nagaoka-shi, Niigata 940-2316 Japan

**Prüfzeichen *Test Mark***

Geprüft nach *Tested acc. to*



EN 60947-7-1:2009

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

**Lizenzentgelte - Einheit**  
*License Fee - Unit*

PCB-mounted Terminal Block, as page 0001

Change

Address of  
License Holder:      3F Sanyu Bldg. 3-42-1, Hongo  
   Bunkyo-ku, Tokyo  
   113-0033 Japan

changed to:      (see above)



*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 LGA Products GmbH, Tillystraße 2, 90431 Nürnberg  
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety

Dipl.-Ing. (FH) F. Becker

Constructional Data Form for Terminal Block

Applicant: Sato Parts Co., Ltd.  
Full Address: 3-3-3 Ebisu, Shibuya-ku, Tokyo 150-0013 Japan

Factory: Niigata Sato Parts Co., Ltd.  
Full Address: 2255-2 Oh-Aza-Torigoe, Mishima-machi, Santo-gun, Niigata 940-2316 Japan

Mark of origin: **SATO PARTS**

Type designation: **ML-800 series (refer to page 3)**

Protection degree: **IP 00**

Number of terminals: **Number of terminals variable**

Rated connecting capacity: **for rigid conductor ; AWG#24 to AWG #16  
for flexible conductor ; 0.3 mm<sup>2</sup>(AWG#22) to 1.25 mm<sup>2</sup> ( AWG #16)**

Ambient air temperature range: **-20 to +50 °C**

Material of housing: **Polyamide, Type 66 Nylon**

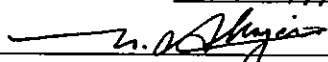
Flammability class of housing: **94V-0 (UL94 Flame Class)**

Material of contact: **Tin or Solder Plated Copper Alloy**

Rated operational current: **10 A**

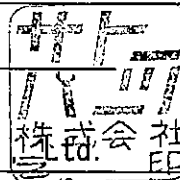
Rated operational voltage: **AC/DC 250 V**

Köln, den 14. 10. 1998



TÜV Rheinland  
Product Safety GmbH

Ebisu  
(Place)

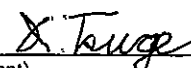


SATO PARTS Co. Ltd.

K. Tsuge

(Stamp and Signature of Applicant)

12. 10. 1998  
(Date)



Constructional Data Form for Terminal Block

Insulation coordination acc. to IEC 664 (1980)/664A (1981)

Pollution degree : 3

Overvoltage category : III

Creepage:  
CTI value: > 600

Clearance distance:

Between contacts: See below

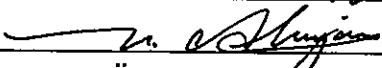
Remark: Creepages and Clearances does not need to be filled in, if the table below is used.

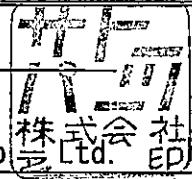
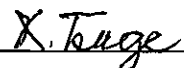
Type designation	Creepage (mm)	Clearance (mm)
ML-800 S1V	4.4	4.4
ML-800 S1H	3.7	3.7
ML-800 S2V	6.9	6.9
ML-800 S2H	6.2	6.2
ML-800 S3V	9.4	9.4
ML-800 S3H	8.7	8.7
ML-800 XXXXX	Min. 3.7	Min. 3.7

Rated insulation voltage: Same as rated operational voltage

Information regarding mounting etc.

Type designation	Mounting
ML-800 S1V	Mounting on PCB
ML-800 S1H	"
ML-800 S2V	"
ML-800 S2H	"
ML-800 S3V	"
ML-800 S3H	"
ML-800 XXXXX	"

Köln, den 14.10.1998  
  
TÜV Rheinland  
Product Safety GmbH

Ebisu  
(Place)  
  
SATO PARTS Co., Ltd. EPK. Tsuge  
(Stamp and Signature of Applicant)  
12.10.1998  
(Date)  


**Constructional Data Form for Terminal Block**

Short-time withstand current and wire size.

Type designation	Wire size (AWG / mm <sup>2</sup> )	Short-time withstand current (A)
ML-800 S1V	AWG 16	180
ML-800 S1H	AWG 16	180
ML-800 S2V	AWG 16	180
ML-800 S2H	AWG 16	180
ML-800 S3V	AWG 16	180
ML-800 S3H	AWG 16	180
ML-800 XXXXX	AWG 16	180

Nomenclature (see below)

Example:

ML-800     S1     V     15P  
 A             B             C             D

ML-800     XXXXX     15P  
 A             E             D

A - Basic Construction (Model No.)

ML-800

B - Thickness of Sectional Block

S1 - 5mm thick

S2 - 5mm thick, with 2.5 mm thick spacer

S3 - 5mm thick, with 5.0 mm thick spacer

C - Location of Soldering Post

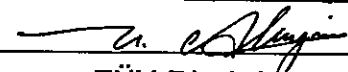
V - Bottom (Vertical Type)

H - Back (Horizontal Type)

D - Number of poles: one, two or three digit number followed by "P"

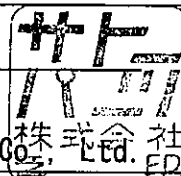
E - X can be 0-9, A-Z or blank, denotes various kinds of spacer thickness combination.

Köln, den 14.10.1998



TÜV Rheinland  
 Product Safety GmbH

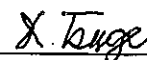
Ebisu  
 (Place)



SATO PARTS Co., Ltd.

(Stamp and Signature of Applicant)

K. Tsuge



12.10.1998

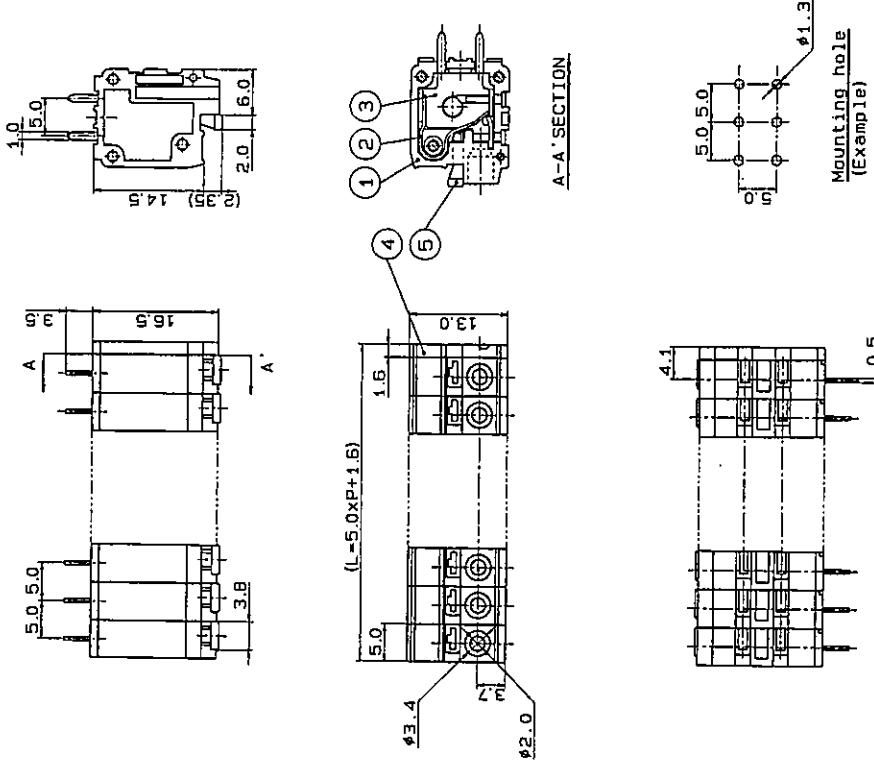
(Date)

# Constructional Data Form for Terminal Block

**SATO PARTS CO., LTD.**

P	L	P	L	P	L
(Number of poles)	(Length)	(Number of poles)	(Length)	(Number of poles)	(Length)
1	6.6	11	56.6	21	106.6
2	11.6	12	61.6	22	111.6
3	16.6	13	66.6	23	116.6
4	21.6	14	71.6	24	121.6
5	26.6	15	76.6	25	126.6
6	31.6	16	81.6	26	131.6
7	36.6	17	86.6	27	136.6
8	41.6	18	91.6	28	141.6
9	46.6	19	96.6	29	146.6
10	51.6	20	101.6	30	151.6

Note: Even any number of poles more than 30P may be assembled.



A-A' SECTION

① Sectional Block  
② Spring  
③ Wire Terminal (V)  
④ End Plate  
⑤ Wire Release

**Model: ML-800**  
**Cat. No.: ML-800 S1V yP**

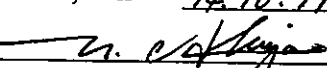
y can be 1 - 100, denotes number of poles.

THIRD ANGLE

UNIT: MM

**#H-R-1** 株式会社

Köln, den 14.10.1998




TÜV Rheinland  
Product Safety GmbH

Ebisu  
(Place)

12.10.1998  
(Date)

SATO PARTS CO. 株式会社  
Ltd. 印 K. Tsuge

(Stamp and Signature of Applicant)



Constructional Data Form for Terminal Block

SATO PARTS CO., LTD.

P (Number of poles)	L (length)	P (Number of poles)	L (length)	P (Number of poles)	L (length)
1	6.6	11	56.6	21	106.6
2	11.6	12	61.6	22	111.6
3	16.6	13	66.6	23	116.6
4	21.6	14	71.6	24	121.6
5	26.6	15	76.6	25	126.6
6	31.6	16	81.6	26	131.6
7	36.6	17	86.6	27	136.6
8	41.6	18	91.6	28	141.6
9	46.6	19	96.6	29	146.6
10	51.6	20	101.6	30	151.6

Note: Even any number of poles more than 30P may be assembled.

① Sectional Block  
② Spring  
③ Wire Terminal (H)  
④ End Plate  
⑤ Wire Release

Mode I: ML-800  
Cat. No.: ML-800 S1H yP  
y can be 1 - 100, denotes number of poles.

THIRD ANGLE UNIT: MM

サトー株式会社

Köln, den 14.10.1998  
*K. Tsuge*  
TÜV Rheinland  
Product Safety GmbH

Ebisu  
(Place)  
SATO PARTS Co., Ltd. 株式会社  
K. Tsuge  
(Stamp and Signature of Applicant)

12.10.1998  
(Date)

Constructional Data Form for Terminal Block

SATO PARTS co., LTD.

P (Number of poles)	L (Length)	P (Number of poles)	L (Length)	P (Number of poles)	L (Length)
2	14.1	11	81.6	21	156.6
3	21.6	12	89.1	22	164.1
4	29.1	13	96.6	23	171.6
5	36.6	14	104.1	24	179.1
6	44.1	15	111.6	25	186.6
7	51.6	16	119.1	26	194.1
8	59.1	17	126.6	27	201.6
9	66.6	18	134.1	28	209.1
10	74.1	19	141.6	29	216.6
		20	149.1	30	224.1

Note: Even any number of poles more than 30P may be assembled.

① Sectional Block  
② Spring  
③ Wire Terminal (V)  
④ End Plate  
⑤ Wire Release  
⑥ Spacer (2.5)

Model: ML-800  
Cat. No.: ML-800 S2V yP  
y can be 1 - 100, denotes number of poles.

THIRD ANGLE UNIT: MM

サトー電機株式会社

Köln, den 14.10.1998  
  
TÜV Rheinland  
Product Safety GmbH

Ebisu  
(Place)  
SATO PARTS Co., Ltd.   
K. Tsuge   
(Stamp and Signature of Applicant)

12.10.1998  
(Date)

Constructional Data Form for Terminal Block

**SATO PARTS co., LTD.**

P (Number of poles)	L (length)	P (Number of poles)	L (length)	P (Number of poles)	L (length)
2	14.1	12	89.1	22	164.1
3	21.6	13	96.6	23	171.6
4	29.1	14	104.1	24	179.1
5	36.6	15	111.6	25	186.6
6	44.1	16	119.1	26	194.1
7	51.6	17	126.6	27	201.6
8	59.1	18	134.1	28	209.1
9	66.6	19	141.6	29	216.6
10	74.1	20	149.1	30	224.1

Note: Even any number of poles more than 30P may be assembled.

① Sectional Block  
② Spring  
③ Wire Terminal (H)  
④ End Plate  
⑤ Wire Release  
⑥ Spacer (2.5)

Model: ML-800  
Cat. No.: ML-800 S2H YP

y can be 1 - 100, denotes number of poles.

THIRD ANGLE UNIT: MM

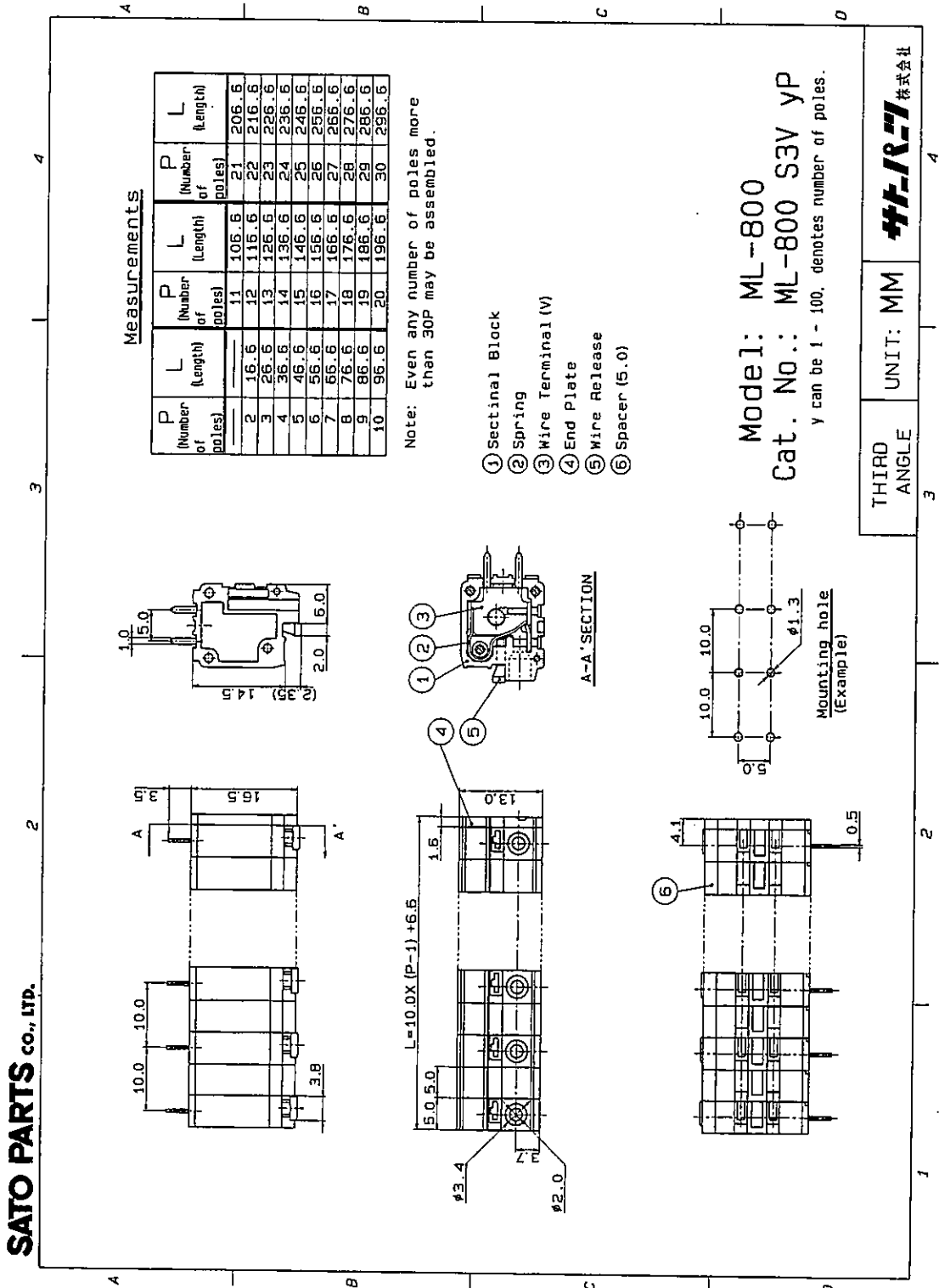
**サトー** 株式会社

Köln, den 14.10.1998  
*K. Tsuge*  
TÜV Rheinland  
Product Safety GmbH

Ebisu (Place)  
SATO PARTS Co., Ltd. (Stamp and Signature of Applicant)  
K. Tsuge  
12.10.1998 (Date)



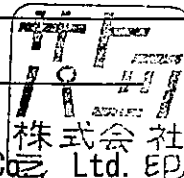
### Constructional Data Form for Terminal Block



Köln, den 14.10.1998

TÜV Rheinland  
Product Safety GmbH

Ebisu  
(Place)



SATO PARTS Co., Ltd. EP K. Tsuge

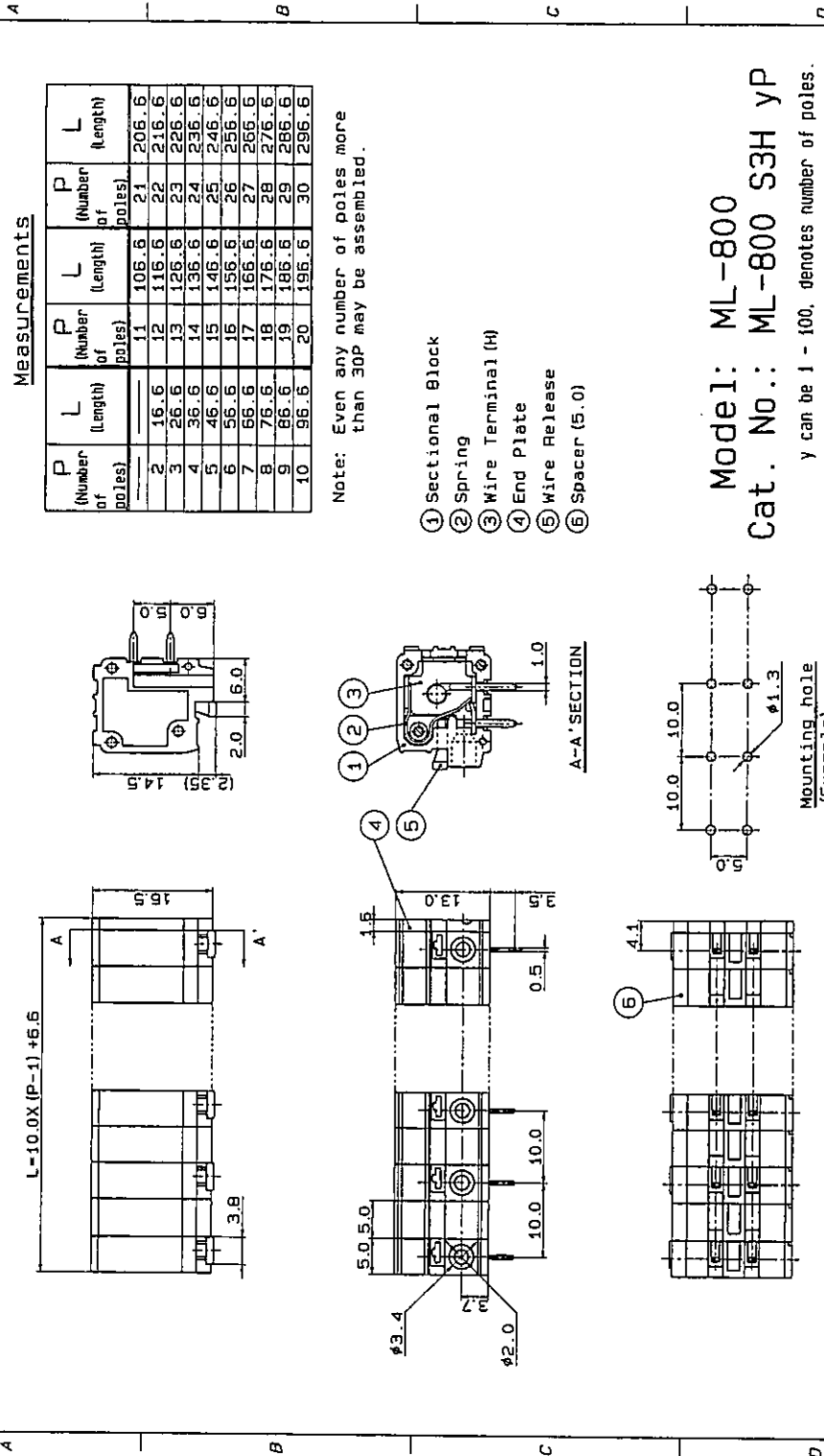
(Stamp and Signature of Applicant)

12.10.1998

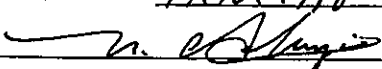
(Date)

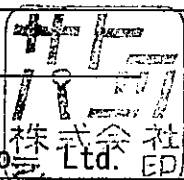


### Constructional Data Form for Terminal Block

**SATO PARTS** CO., LTD.

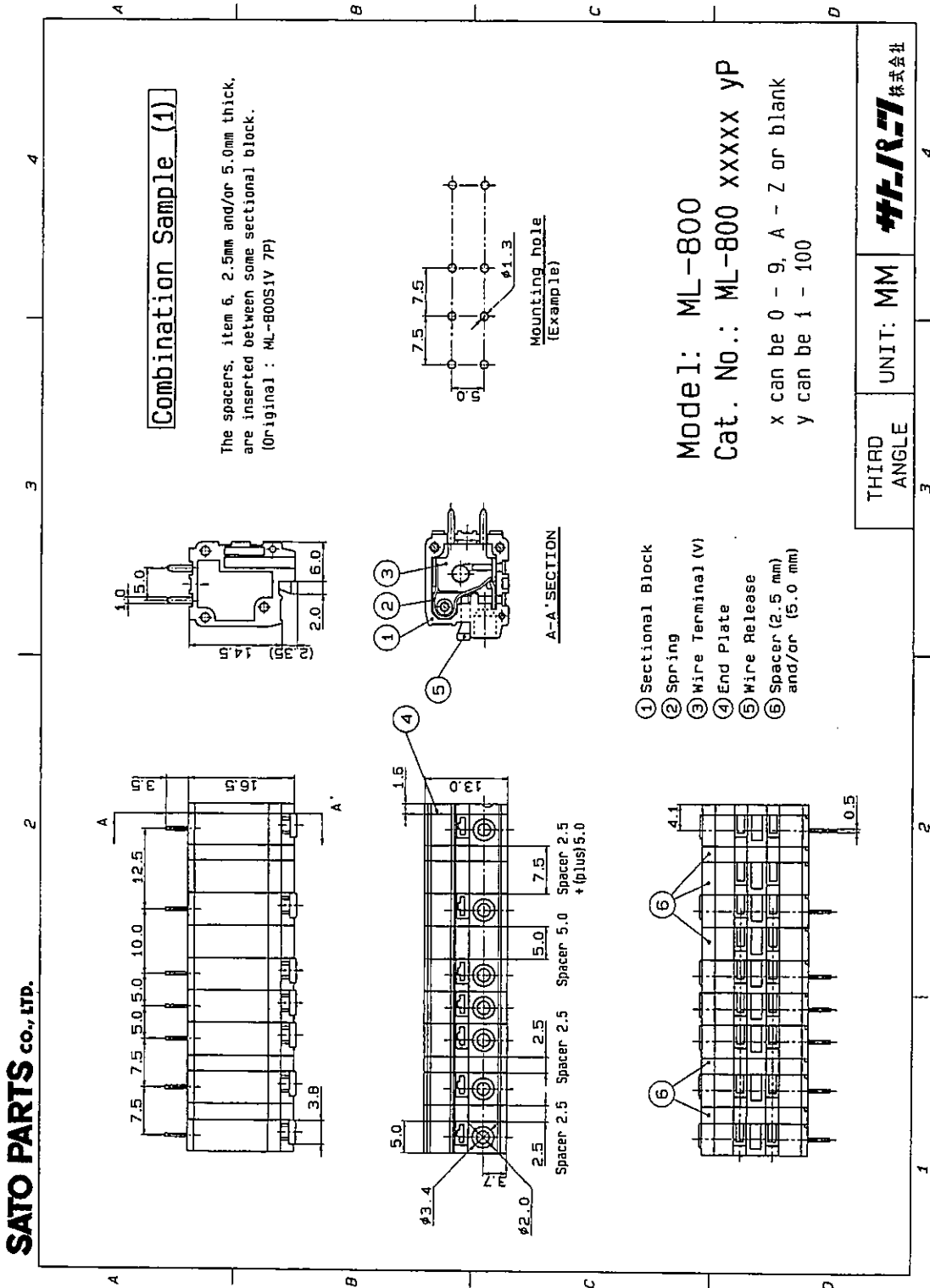


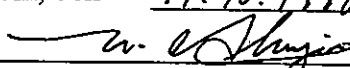
THIRD ANGLE UNIT: MM **サトー株式会社**

Köln, den 14.10.1998  
  
TÜV Rheinland  
Product Safety GmbH

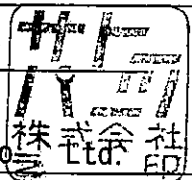
Ebisu (Place)   
SATO PARTS Co., Ltd.  K. Tsuge   
(Stamp and Signature of Applicant) 12.10.1998 (Date)

### Constructional Data Form for Terminal Block




Köln, den 14.10.1998  
  
 TÜV Rheinland  
 Product Safety GmbH

Ebisu  
 (Place)

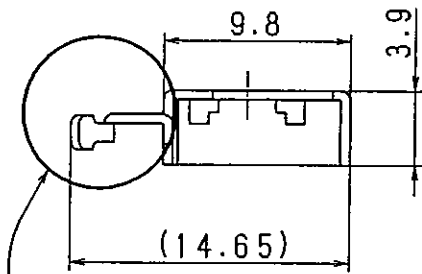
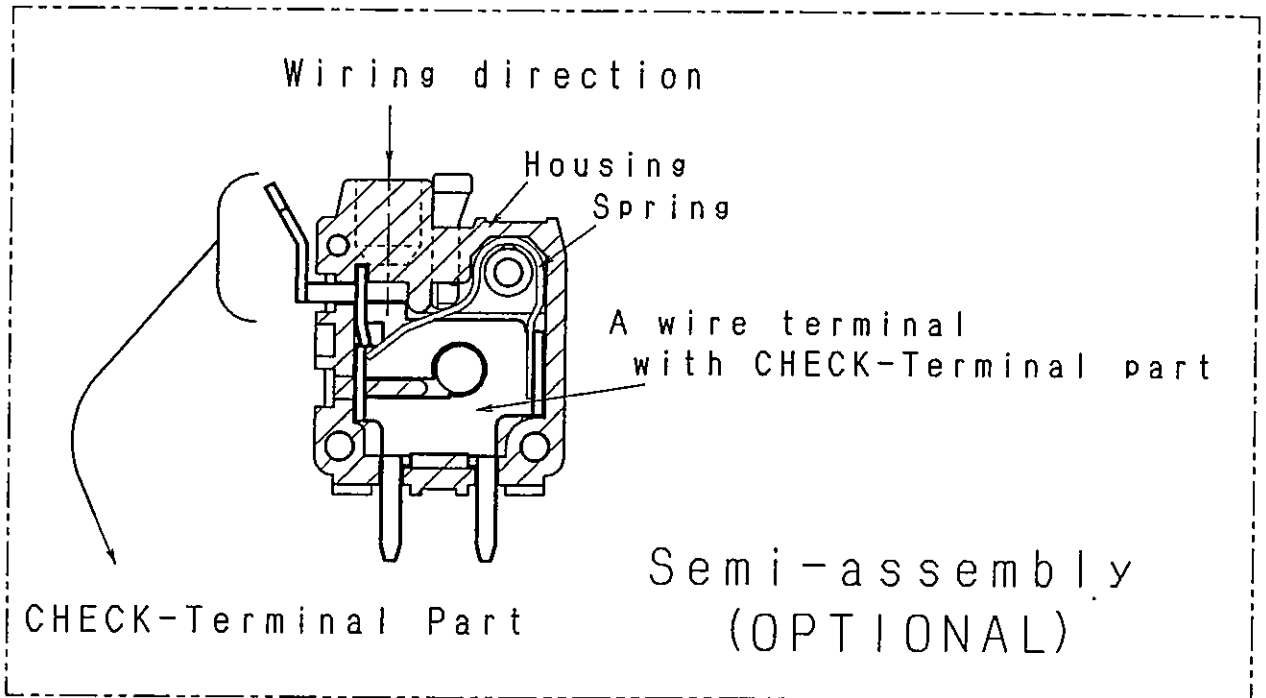


SATO PARTS Co., Ltd. K. Tsuge  
 (Stamp and Signature of Applicant)

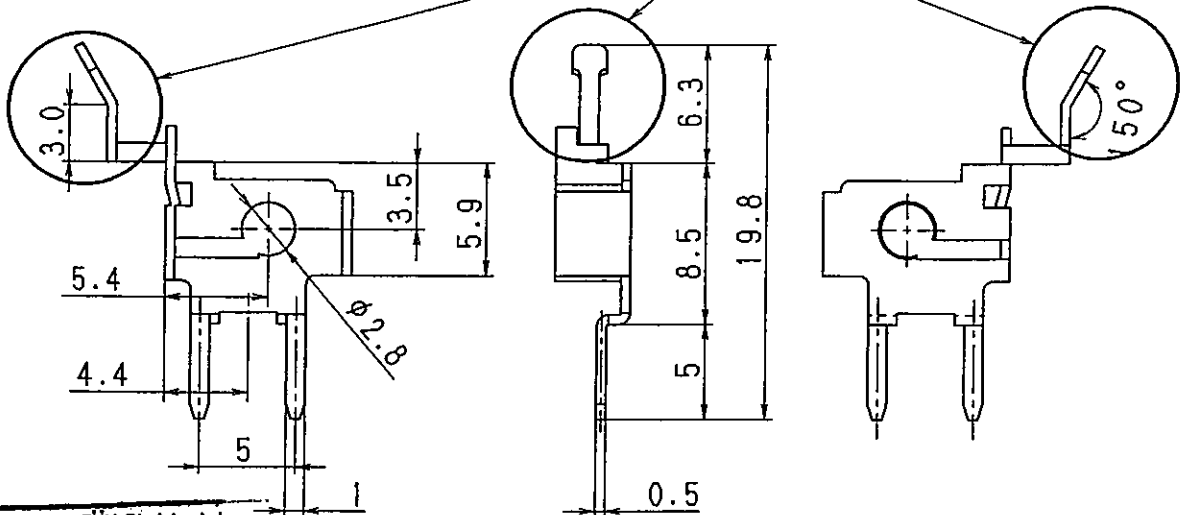
12.10.1998  
 (Date)



All dimensions are nominal, except where specifically described.



CHECK-Terminal, an integral part of wire terminal, for the purpose of checking a circuit. (Not for current carrying)

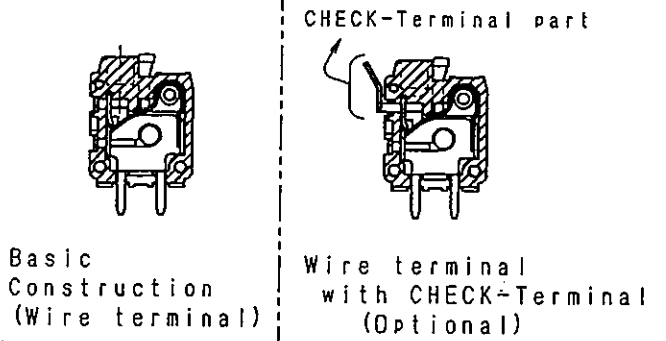


TÜV Rheinland Japan  
Product Safety Dept  
Genehmigt/Approved  
10.10.2002  
*Denki*  
Rep. No.:  
09661020 006

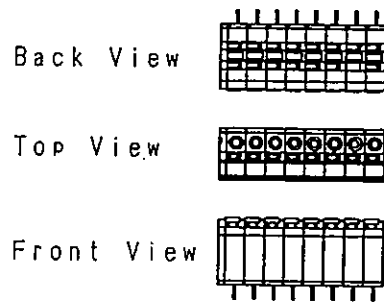
Parts name: Wire Terminal  
(with CHECK-Terminal part, optional.)  
For Model ML-800

UNIT: MM **SATO PARTS**

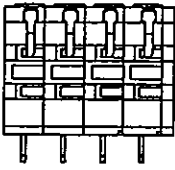
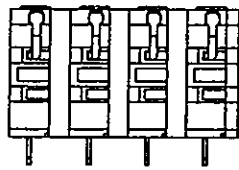
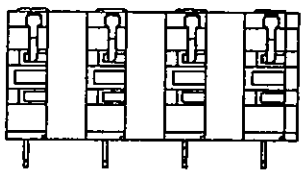
Profile of One-pole  
Semi-assembly



Views of ML-800 series  
using basic terminals.




Back view of ML-800 series  
using CHECK-Terminal added wire terminal.

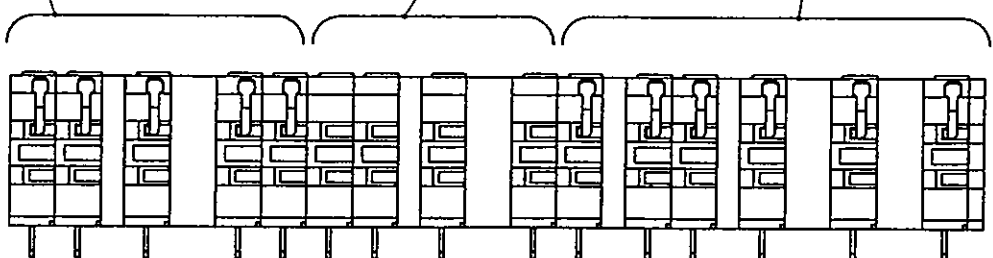
"S1" type (5mm Pitch)	"S2" type (7.5mm Pitch)	"S3" type (10mm Pitch)
Type "S1" with CHECK-Terminal, optional.	Type "S2" with CHECK-Terminal, optional.	Type "S3" with CHECK-Terminal, optional.
		
4P	4P	4P

Type "S1", "S2", "S3" with  
CHECK-Terminal added  
wire terminal, optional.

Type "S1", "S2", "S3" with  
CHECK-Terminal added  
wire terminal, optional.

Type "S1", "S2", "S3" with  
basic wire terminal.

 TÜV Rheinland Japan  
Product Safety Dept  
Genehmigt/Approved  
18.10.2002  
*D. M. L.*  
Rep. No.:  
096 61020 006



ML-800UUUUU

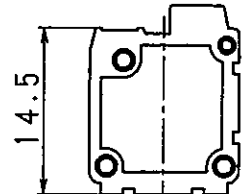
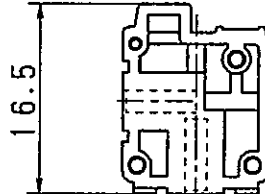
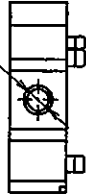
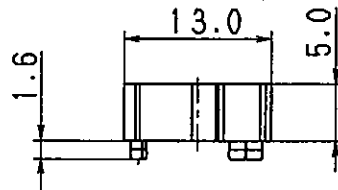
A combination sample

UNIT: MM **SATO PARTS**

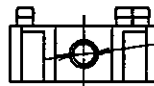
# Optional


All dimensions are nominal, except where specifically described.

$\phi 2.0$   
Depth: 6.5

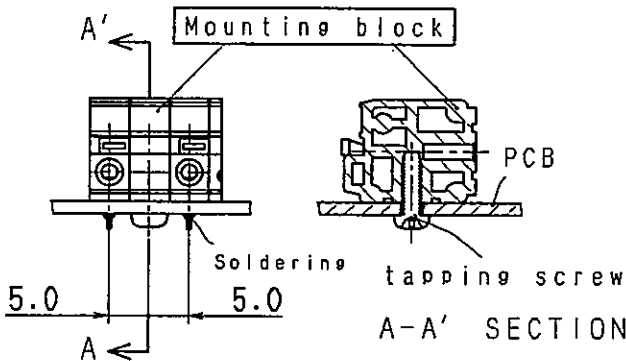


$\phi 2.0$   
Depth: 6.5

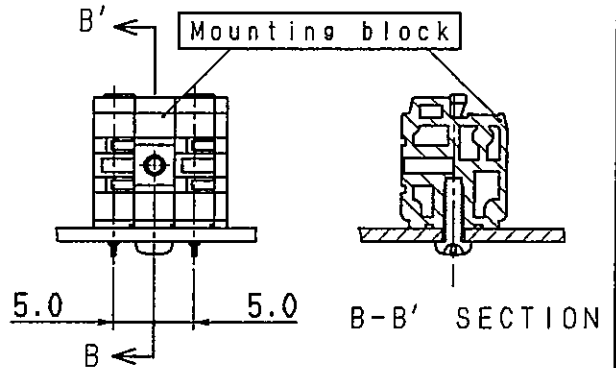



 TUV Rheinland Japan  
 Product Safety Dept  
 Genehmigt/Approved  
 02.10.2001  
*Denzel*  
 Rep. No.:  
 09661020 005

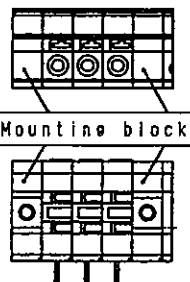
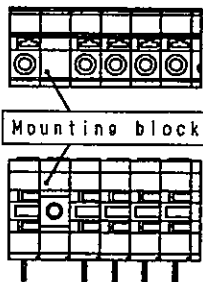
## ML-800-H type



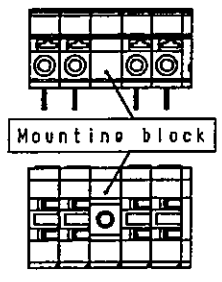
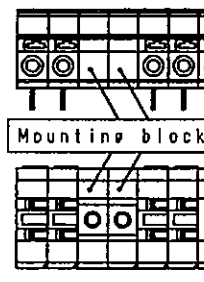
## ML-800-V type



## ML-800-S1V type



## ML-800-S1H type



Examples

**Mounting block:** Connected with the base of ML-800 to fix on PCB, use with M2.5 or M2.6 tapping screw tightening from the opposite side of PCB.  
 This parts may be stands in any place.  
 (See the examples)

Optional Parts: **Mounting Block**

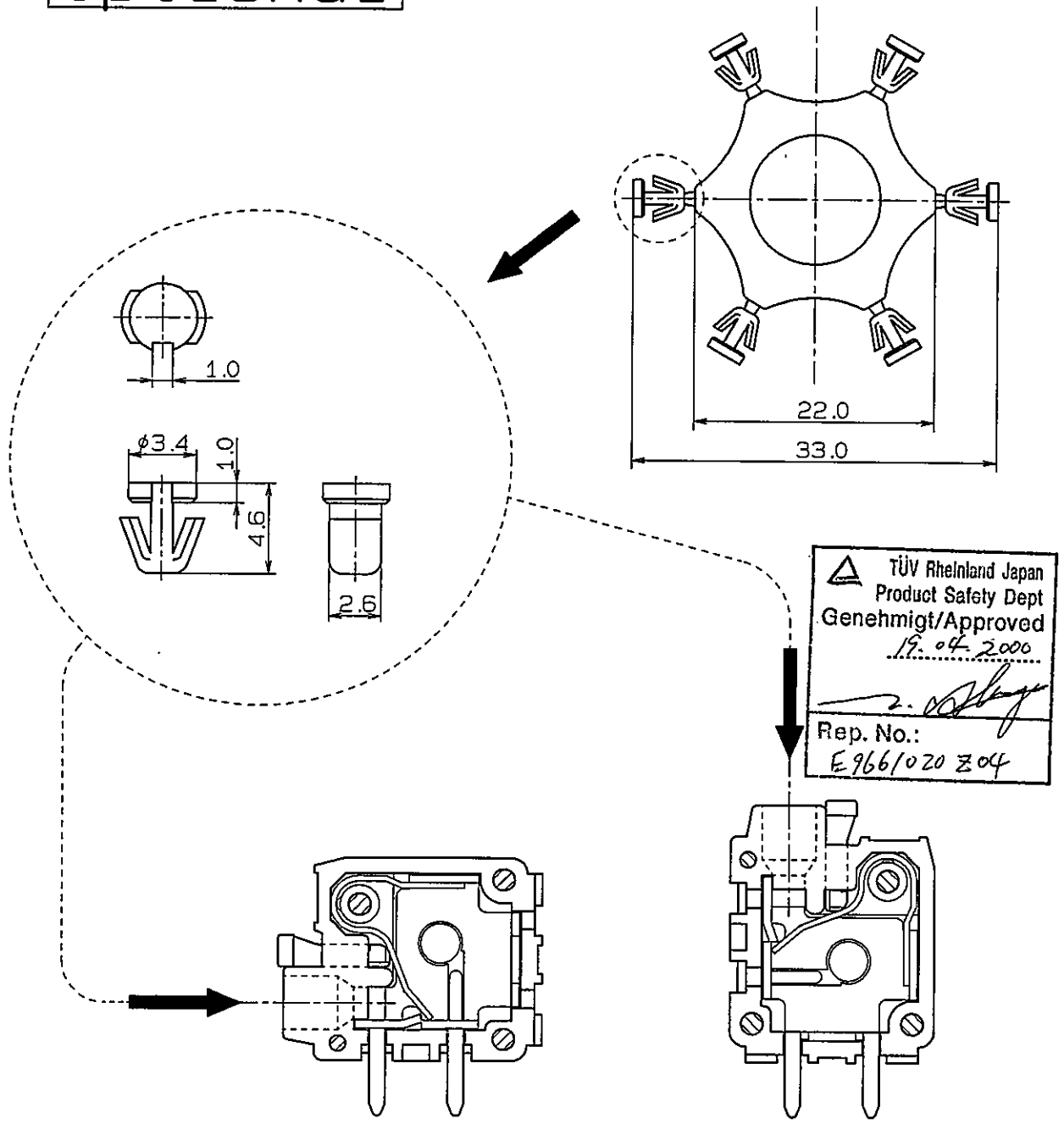
THIRD  
ANGLE

UNIT: MM

**SATO PARTS**

All dimensions are nominal, except where specifically described.

# Optional



TÜV Rheinland Japan  
Product Safety Dept  
Genehmigt/Approved  
19.04.2000  
Rep. No.:  
E966/020 Z04

ML-800 (type "H")

ML-800 (type "V")

Lockout caps : For covering unused clamping units or empty Sectional Block (as a spacer) to avoid making an error-connection.

Optional parts:  
**Lockout Cap**

# Application of Alternate Construction

We would like to add an alternate construction to our certified products.  
Please confirm the construction mentioned below and recognize it as well as certified products.

License No. (Certificate No.) : J 9650810  
License Holder : Sato Parts Co., Ltd.  
Type Designation : ML-800 Series

-----

Alternate Construction : Addition of alternate moulding plastic material for Wire Release (S)

Plastic Material : PPS, Polyphenylene Sulfide  
Manufacturer : Toray Industries Inc.  
Designation : A515  
UL Flame Class : 94V-0 (0.74mm thick.)  
UL File No. : E41797 (M)

No other modification except the above shall be made in the construction.



S. Ohtake  
Engineer  
Engineering Section  
Manufacturing Department  
SATO PARTS CO., LTD.





## Application of Alternate Construction

We would like to add alternate construction to our products which are certified to comply with the applicable standards. Please confirm the construction and recognize it as well as the certified products. The alternate construction as follows:

Model: ML-800 Series

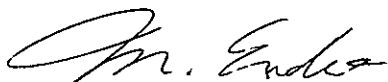
Detail of Alternate Construction:

### Color Variation

Any color can be applied to the product.

Different color can be applied to each part or terminal block in one product.

※ No other modification than the above shall be made in the construction.



M. Endo  
Engineer  
Engineering Section  
Manufacturing Department  
SATO PARTS CO., LTD.

