

Original



EU DECLARATION OF CONFORMITY

1. Product Models/Products:

F3SJ-A series

F3SJ-AM series

2. Name and address of the manufacturer:

OMRON Corporation

Shiokoji-horikawa, Shimogyo-ku, Kyoto, 600-8530, JAPAN

3. This declaration of conformity is issued under the sole responsibility of the manufacturer.

4. Objects of the declaration:

F3SJ-A series, Safety Light Curtain

F3SJ-AM series, Safety Light Curtain

5. The objects of the declaration described above are in conformity with the relevant Union harmonisation legislation:

2004/108/EC EMC Directive (valid until 19 April 2016)

2014/30/EU EMC Directive (valid from 20 April 2016)

2006/42/EC Machinery Directive

6. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

EMC Directive: EN 61000-6-4:2007/A1:2011, EN 61496-1:2013

Machinery Directive: EN 61496-1:2013, EN 61496-2:2013, EN ISO 13849-1:2008

7. Name, address, and identification number of Notified Body, Number of EC Type Examination:

Machinery Directive:

Notified body: TÜV SÜD Product Service GmbH

Address: Zertifizierstelle, Ridlerstraße 65, 80339, München, Germany,

Notified Body identification No.: 0123

Certificate for EU Type Examination: Z10 15 08 39656 297

Signed and on behalf of: OMRON Corporation

Place and date of issue: Kyoto, Japan 21. December 2015

Signature:

Name:

Yoshinori Matsueda

Function:

Industrial Automation Company, Safety Division,
Safety Product Management Group Manager

Name and address of contact in EU

OMRON Europe B.V.

Quality & Environment Department

Attn: J.J.P.W. Vogelaar, European Quality & Environment Manager

Zilverenberg 2, 5234 GM, 's-Hertogenbosch, The Netherlands

Additional information

(1) Type: F3SJ-A Series (Type 4 ESPE/AOPD)

F3SJ-A () () - () - () - () ()
I II III IV V VI

I : 0245 to 2500

II : P or N

III : 14, 20, 25, 30, 35, 55, or 65

IV : Blank, D or L

V : Blank, TS, 01TS, or 01T

VI : Blank, or xxxxx (xxxxx indicates 1 to 5 digits of alphanumeric character(s))

(2) Type: F3SJ-AM Series (Type 4 ESPE/AOPD)

F3SJ-AM () () - () - () - () ()
I II III IV V VI

I : 2, 3, or 4

II : P or N

III : 300, 400, or 500

IV : Blank, D or L

V : Blank

VI : Blank, or xxxxx (xxxxx indicates 1 to 5 digits of alphanumeric character(s))



EC Declaration of Conformity

We hereby declare that the following products are in conformity with the requirements of the following EC Directive:

Product:	Control Unit	
Type:	F3SP-B1P (Refer to Types List)	
Title and No. of Directive:	EMC Directive	2004/108/EC
	Machinery Directive	2006/42/EC

These products are designed and manufactured in accordance with the following standards.

EMC Directive:

EMI (Electromagnetic Interference):

EN 61000-6-4:2007/A1:2011

EMS (Electromagnetic Susceptibility):

EN 61496-1:2004/A1: 2008

Machinery Directive:

Electro-sensitive protective equipment:

EN 61496-1:2004/A1: 2008

Active opto-electronic protective devices:

IEC 61496-2: 2006

Description of Product:

The F3SP-B1P is a controller for use with the F3SN-A, F3SN-B, F3SH-A, F3SR-430B, F3SJ-A or F3SJ-B series.

The F3SP-B1P with the F3SN-A, F3SH-A, F3SR-430B, F3SJ-A or F3SJ-B series is ESPE Type 4 according to EN61496-1 & AOPD Type 4 according to IEC61496-2 and can be used as a safeguard for personal protection at machinery and other hazardous areas, which require safeguards according to Category B, 1, 2, 3, 4 and "PL e" according to EN ISO13849-1:2008.

The F3SP-B1P with the F3SN-B series is ESPE Type 2 according to EN61496-1 & AOPD Type 2 according to IEC61496-2 and can be used as a safeguard for personal protection at machinery and other hazardous areas, which require safeguards according to Category B, 1, 2 and "PL c" according to EN ISO13849-1:2008.

Certificate:

Machinery Directive - Certificate for EC Type-Examination (No.: M6A 11 03 39656 217)

Notified Body: TÜV SÜD Product Service GmbH

Address: Zertifizierstelle, Ridlerstrasse 65, 80339, München, Germany

Notified Body identification No.: 0123

Responsible Person for Documentation:

J.J.P.W. Vogelaar OMRON EUROPE B.V.

Zilverenberg 2, 5234 GM, 's-Hertogenbosch, The Netherlands

Manufacturer:

Name: OMRON Corporation, Industrial Automation Company,
Safety Division
Address: Shiokoji-horikawa, Shimogyo-ku, Kyoto, 600-8530, JAPAN

Date: Dec. 17, 2013

Signed: Eiji Bando
Eiji Bando Business Development Dept.

Representative in EU:

Name: OMRON Europe B.V.
Address: Zilverenberg 2, 5234 GM, 's-Hertogenbosch, THE NETHERLANDS

Date: Jan 6, 2014

Signed: J.J.P.W. Vogelaar
J.J.P.W. Vogelaar European Quality & Environment Operations Manager

Types List for EC Directive

Safety Terminal Relay

Type F3SP-B1P series

Type:	F3SP-B1P
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Revision History

Rev.	Date	Revised Contents
A	15 Mar 2010	Original Version
B	16 Sep 2011	- The document format updated. - The edition of EN 61496-1 updated. - The standard for Machinery Directive updated from EN 954-1 to EN ISO 13849-1. - Target model names for F3SP-B1P added in "Description of Product". - EC Type-Examination Certificate No. and singer name of manufacturer updated. - Notified Body identification No. and Responsible person for documentation added.
C	5 Dec 2013	Standard for EMC Directive updated: (EMI) EN 61000-6-4:2007 → EN 61000-6-4:2007/A1:2011 Responsible Person for Documentation updated. Manufacturer and Representative in EU updated. Types list added.



Product Service

CERTIFICATE

No. Z10 15 08 39656 297

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

Certification Mark:



Product: Electro-Sensitive Protective Equipment
(AOPD) Type 4

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.: 70032744

Valid until: 2020-08-26

Date, 2015-08-27 (Günter Greil)

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Product Service

CERTIFICATE**No. Z10 15 08 39656 297****Model(s):****F3SJ-A**
F3SJ-AM**For nomenclature of product type see attachment****Parameters:**

Power supply: 24VDC
 Current consumptions (max): 165mA Emitter
 142mA Receiver
 Detection distance: 0.2m-9m (for protective height
 up to 1649mm)
 0.2m-7m (for protective height
 1655mm or greater)
 Operating temperature: -10°C...+55°C
 Protection class: IP65
 Response time: see attachment to certificate

**Tested
according to:**

2006/42/EC
 IEC 61508-1(ed.2) (SIL1-3)
 IEC 61508-2(ed.2) (SIL1-3)
 IEC 61508-3(ed.2) (SIL1-3)
 EN 61508-1:2010 (SIL1-3)
 EN 61508-2:2010 (SIL1-3)
 EN 61508-3:2010 (SIL1-3)
 IEC 61496-1(ed.3)
 IEC 61496-2(ed.3)
 EN 61496-1:2013
 EN 61496-2:2013
 EN ISO 13849-1:2008 (PL e, Cat 4)
 EN 50178:1997

Factory(ies):

48774, 64470



Product Service

Attachment to certificate Z10 15 08 39656 297

1. Nomenclature of Product type

1.1. Safety Light Curtain model

F3SJ-() () () () () () () - () - () () () () () () () ()

I II III IV V VI VII

I. Type classification

F3SJ-A:	Type 4 safety light curtain
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II. Protective height (PH)

4 figures from 0245 to 2117:	For 14mm detection capability type PH is calculated with the following formula. $PH(mm) = 9 \times (\text{Number of beams} - 1) + 20$
4 figures from 0245 to 2495:	For 20mm detection capability type PH is calculated with the following formula. $PH(mm) = 15 \times (\text{Number of beams} - 1) + 20$
4 figures from 0260 to 2500:	For 25mm detection capability type PH is calculated with the following formula. $PH(mm) = 20 \times (\text{Number of beams} - 1) + 20$
4 figures from 0245 to 2495:	For 30mm detection capability type PH is calculated with the following formula. $PH(mm) = 25 \times (\text{Number of beams} - 1) + 20$
4 figures from 0260 to 2480:	For 35mm detection capability type PH is calculated with the following formula. $PH(mm) = 30 \times (\text{Number of beams} - 1) + 20$
4 figures from 0270 to 2470:	For 55mm detection capability type PH is calculated with the following formula. $PH(mm) = 50 \times (\text{Number of beams} - 1) + 20$
4 figures from 0260 to 2480:	For 65mm detection capability type PH is calculated with the following formula. $PH(mm) = 60 \times (\text{Number of beams} - 1) + 20$

III. Output

P:	PNP transistor output
N:	NPN transistor output

IV. Detection capability

14:	14 mm
20:	20 mm
25:	25 mm
30:	30 mm
35:	35 mm
55:	55 mm
65:	65 mm



Product Service

VI. Special customization

Blank : Standard type

VII. Other customization

Blank : Standard type

xxxxx (xxxxx indicates 1 to 5 digits of alphanumeric character(s)) : The following specification changes are indicated by this additional suffix except suffix used for VI.

- 1) Factory settings of the selectable functions (See clause 3)
- 2) Cable length within maximum length specification
- 3) Using connector-less cable
- 4) Appearance of the enclosure, and/or additional markings
- 5) Packaging style and/or contained accessories (Accessories can be pre-assembled)
- 6) Name of the indicators, inputs, and/or outputs on labels and users manuals

2. Specification for -TS / -01TS / -01T

The following specification will be changed:

Common specification change

	For detection capability 14 / 20 / 25mm types	For detection capability 30mm type
Series connection	3 sets max. 240 beams max.	3 sets max. 136 beams max.
Response time (OFF to ON) when 3 sensors are series connected	Use small value either, „Response time (ON to OFF) x5ms“ or „200ms“	
Start/Restart interlock function	Disable	

Separate specification change

	External test function	Override function	EDM function
-01TS	Inversing input logic	Dynamic input logic	
-01T			Disable

3. Factory settings of the selectable functions

- 1) Changing function settings which are possible to change with the PC setting tool, F39-GWUM.
- 2) Reversing input logic of external test function
- 3) Disabling the external test function
- 4) Changing the maximum muting input time with allowable wave form cracks up to 1s
- 5) Changing the muting end waiting time up to 1s
- 6) Prohibiting function setting changes with setting tools



Product Service

4. Response time

4.1. Safety Light Curtain model

Number of beams	Response time (ON to OFF)	Response time (OFF to ON)	Number of beams	Response time (ON to OFF)	Response time (OFF to ON)
6	10 ms	40 ms	120	20 ms	80 ms
7	10 ms	40 ms	121	20 ms	80 ms
8	10 ms	40 ms	122	20 ms	80 ms
9	10 ms	40 ms	123	20 ms	80 ms
10	10 ms	40 ms	124	20 ms	80 ms
11	10 ms	40 ms	125	20 ms	80 ms
12	10 ms	40 ms	126	20 ms	80 ms
13	10 ms	40 ms	127	20 ms	80 ms
14	10 ms	40 ms	128	20 ms	80 ms
15	10 ms	40 ms	129	20 ms	80 ms
16	10 ms	40 ms	130	20 ms	80 ms
17	11 ms	44 ms	131	20 ms	80 ms
18	11 ms	44 ms	132	20 ms	80 ms
19	11 ms	44 ms	133	20 ms	80 ms
20	11 ms	44 ms	134	20 ms	80 ms
21	11 ms	44 ms	135	20 ms	80 ms
22	11 ms	44 ms	136	20 ms	80 ms
23	11 ms	44 ms	137	20 ms	80 ms
24	11 ms	44 ms	138	20 ms	80 ms
25	11 ms	44 ms	139	20 ms	80 ms
26	11 ms	44 ms	140	20 ms	80 ms
27	11 ms	44 ms	141	20 ms	80 ms
28	11 ms	44 ms	142	20 ms	80 ms
29	11 ms	44 ms	143	20 ms	80 ms
30	12 ms	48 ms	144	20 ms	80 ms
31	12 ms	48 ms	145	22.5 ms	90 ms
32	12 ms	48 ms	146	22.5 ms	90 ms
33	12 ms	48 ms	147	22.5 ms	90 ms
34	12 ms	48 ms	148	22.5 ms	90 ms
35	12 ms	48 ms	149	22.5 ms	90 ms
36	12 ms	48 ms	150	22.5 ms	90 ms
37	12 ms	48 ms	151	22.5 ms	90 ms
38	12 ms	48 ms	152	22.5 ms	90 ms
39	12 ms	48 ms	153	22.5 ms	90 ms
40	12 ms	48 ms	154	22.5 ms	90 ms
41	12 ms	48 ms	155	22.5 ms	90 ms
42	12 ms	48 ms	156	22.5 ms	90 ms
43	13 ms	52 ms	157	22.5 ms	90 ms
44	13 ms	52 ms	158	22.5 ms	90 ms
45	13 ms	52 ms	159	22.5 ms	90 ms
46	13 ms	52 ms	160	22.5 ms	90 ms
47	13 ms	52 ms	161	22.5 ms	90 ms
48	13 ms	52 ms	162	22.5 ms	90 ms
49	13 ms	52 ms	163	22.5 ms	90 ms
50	13 ms	52 ms	164	22.5 ms	90 ms
51	13 ms	52 ms	165	22.5 ms	90 ms
52	13 ms	52 ms	166	22.5 ms	90 ms
53	13 ms	52 ms	167	22.5 ms	90 ms
54	13 ms	52 ms	168	22.5 ms	90 ms



Product Service

Number of beams	Response time (ON to OFF)	Response time (OFF to ON)	Number of beams	Response time (ON to OFF)	Response time (OFF to ON)
55	13 ms	52 ms	169	22.5 ms	90 ms
56	14 ms	56 ms	170	22.5 ms	90 ms
57	14 ms	56 ms	171	22.5 ms	90 ms
58	14 ms	56 ms	172	22.5 ms	90 ms
59	14 ms	56 ms	173	22.5 ms	90 ms
60	14 ms	56 ms	174	22.5 ms	90 ms
61	14 ms	56 ms	175	22.5 ms	90 ms
62	14 ms	56 ms	176	22.5 ms	90 ms
63	14 ms	56 ms	177	25 ms	100 ms
64	14 ms	56 ms	178	25 ms	100 ms
65	14 ms	56 ms	179	25 ms	100 ms
66	14 ms	56 ms	180	25 ms	100 ms
67	14 ms	56 ms	181	25 ms	100 ms
68	15 ms	60 ms	182	25 ms	100 ms
69	15 ms	60 ms	183	25 ms	100 ms
70	15 ms	60 ms	184	25 ms	100 ms
71	15 ms	60 ms	185	25 ms	100 ms
72	15 ms	60 ms	186	25 ms	100 ms
73	15 ms	60 ms	187	25 ms	100 ms
74	15 ms	60 ms	188	25 ms	100 ms
75	15 ms	60 ms	189	25 ms	100 ms
76	15 ms	60 ms	190	25 ms	100 ms
77	15 ms	60 ms	191	25 ms	100 ms
78	15 ms	60 ms	192	25 ms	100 ms
79	15 ms	60 ms	193	25 ms	100 ms
80	15 ms	60 ms	194	25 ms	100 ms
81	17.5 ms	70 ms	195	25 ms	100 ms
82	17.5 ms	70 ms	196	25 ms	100 ms
83	17.5 ms	70 ms	197	25 ms	100 ms
84	17.5 ms	70 ms	198	25 ms	100 ms
85	17.5 ms	70 ms	199	25 ms	100 ms
86	17.5 ms	70 ms	200	25 ms	100 ms
87	17.5 ms	70 ms	201	25 ms	100 ms
88	17.5 ms	70 ms	202	25 ms	100 ms
89	17.5 ms	70 ms	203	25 ms	100 ms
90	17.5 ms	70 ms	204	25 ms	100 ms
91	17.5 ms	70 ms	205	25 ms	100 ms
92	17.5 ms	70 ms	206	25 ms	100 ms
93	17.5 ms	70 ms	207	25 ms	100 ms
94	17.5 ms	70 ms	208	25 ms	100 ms
95	17.5 ms	70 ms	209	27.5 ms	110 ms
96	17.5 ms	70 ms	210	27.5 ms	110 ms
97	17.5 ms	70 ms	211	27.5 ms	110 ms
98	17.5 ms	70 ms	212	27.5 ms	110 ms
99	17.5 ms	70 ms	213	27.5 ms	110 ms
100	17.5 ms	70 ms	214	27.5 ms	110 ms
101	17.5 ms	70 ms	215	27.5 ms	110 ms
102	17.5 ms	70 ms	216	27.5 ms	110 ms
103	17.5 ms	70 ms	217	27.5 ms	110 ms
104	17.5 ms	70 ms	218	27.5 ms	110 ms
105	17.5 ms	70 ms	219	27.5 ms	110 ms
106	17.5 ms	70 ms	220	27.5 ms	110 ms
107	17.5 ms	70 ms	221	27.5 ms	110 ms
108	17.5 ms	70 ms	222	27.5 ms	110 ms
109	17.5 ms	70 ms	223	27.5 ms	110 ms



Product Service

Number of beams	Response time (ON to OFF)	Response time (OFF to ON)	Number of beams	Response time (ON to OFF)	Response time (OFF to ON)
110	17.5 ms	70 ms	224	27.5 ms	110 ms
111	17.5 ms	70 ms	225	27.5 ms	110 ms
112	17.5 ms	70 ms	226	27.5 ms	110 ms
113	20 ms	80 ms	227	27.5 ms	110 ms
114	20 ms	80 ms	228	27.5 ms	110 ms
115	20 ms	80 ms	229	27.5 ms	110 ms
116	20 ms	80 ms	230	27.5 ms	110 ms
117	20 ms	80 ms	231	27.5 ms	110 ms
118	20 ms	80 ms	232	27.5 ms	110 ms
119	20 ms	80 ms	233	27.5 ms	110 ms
			234	27.5 ms	110 ms

4.2. Safety Multi beam model

Model	Number of beams	Response time (ON to OFF)	Response time (OFF to ON)
F3SJ-AM2P300	2	10 ms	40 ms
F3SJ-AM3P300	3	10 ms	40 ms
F3SJ-AM4P300	4	11 ms	44 ms
F3SJ-AM2P400	2	10 ms	40 ms
F3SJ-AM3P400	3	11 ms	44 ms
F3SJ-AM4P400	4	11 ms	44 ms
F3SJ-AM2P500	2	10 ms	40 ms

Department: TR-RAMUC
Date: 2015-08-27

Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



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Auftraggeber / Applicant: OMRON Corporation
Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 JAPAN

Fertigungsstätte / Production facility: OMRON Corporation Ayabe Factory
3-2 Narutani, Nakayama-cho, Ayabe city, Kyoto, 623-0105 Japan
OMRON Scientific Technologies, Inc.
6550 Dumbarton Circle, Fremont, CA 94555-3611, USA

Geräteart / Type of equipment: Type 4 / Type2 Safety Light Curtain

Typenbezeichnung / Type/model: F3SJ-A Series (See Nomenclature for type designation)

Seriennr. / Serial no.: N/A

Nennspannung/Frequenz / Rated voltage/frequency: 24VDC±20%

Nennaufnahme/Nennstrom / Rated input power/current: 165mA max. (Emitter), 142mA max. (Receiver)

Gewicht / weight: Approx. 2kg max. (Emittirer), Approx. 2kg max. (Receiver)

Ausführung / Construction:

Ortsfest	Stationary	☒
Ortsveränderlich	Portable	☐
Handgerät	Hand-held	☐
Einbaugerät	Open-frame	☐

Schutzklasse / Protection class:

Schutzklasse I:	Schutzleiteranschluß	PE-connection	☐
Schutzklasse II:	Schutzisoliert	Double insulation	☐
Schutzklasse III:	Schutzkleinspannung/ interne Stromversorgung	SELV/internally powered	☒

Schutzart / Degree of protection against liquids: IP 65 ☒

Anschlußart / Supply connection:

Feste Anschlußleitung	Non detachable cord	☐
Fester Anschluß	Permanent connection	☒
Gerätesteckvorrichtung	Appliance inlet	☐

Netzbetriebsart / Rated operation:

Dauerbetrieb	Continuous operation	☒
Aussetzbetrieb	Intermittent operation	☐
Kurzzeitbetrieb	Short time operation	☐

Material: a) Gehäuse / Enclosure Aluminum, Zinc, PMMA

b) Leiterplatten / p.c.b. UL94-V-2 or better

Zusätzliche Angaben für Laser, Klassifizierung nach EN 60825

Additional information for Laser equipment, classification according to EN 60825

Klasse / Class: 1
Wellenlänge / Wavelength: 870nm
Pulsdauer / Pulse duration: 2.5us or less



Prüfbericht Nr. / Test Report No.:
70032744

Projektleiter / Project manager:

Ort / place: Kyoto, Japan

Datum / date: 12, June, 2015

Stempel und Unterschrift / OMRON CORPORATION
Seal and signature

Satoru Shimokawa

Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)
(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschränken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)

Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

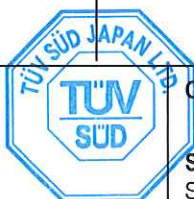
(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers)

Bauteil/ Kind of component	Hersteller/ Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/ Information about type, current, power, transformer specification number, insulating class	Prüfzeichen von Test mark from (VDE, BSI, UL etc.)
<EMC related components> Not Used			

Prüfbericht Nr. / Test Report No.:

70032744

Projektleiter / Project manager:



Ort/place: Kyoto, Japan

Datum/date: 12, June, 2015

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Aufbauübersicht für Elektrogeräte und Maschinen

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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)
(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschränken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen

Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers

Bauteil/ Kind of component	Hersteller/ Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/ Information about type, current, power, transformer specification number, insulating class	Prüfzeichen von Test mark from (VDE, BSI, UL etc.)
<Product safety related components>			
Enclosure (Main Body)	N/A	Aluminum	N/A
	N/A	Zinc die-casting	N/A
Sealing material	N/A	PMMA	N/A
	N/A	ABS(It is used for connector)	N/A
	N/A	Rubber(It is used for connector)	N/A
LED	SUMITOMO 3M	Model Y-4920(Tape)	N/A
	DOWA SEMICONDUCTOR	Model IR4JS75	N/A
		I _F 100mA / 870nm / 5mW	
Photo IC	KODENSHI	Model KL-TI24, KL-TI29	N/A
PCB	N/A	FCL-GE4F18D208-1-V0	UL796
		FCL-GE4F35/18M408-1-V0	
		FCL-GE4F35/18M608-1-V0	
Wire	N/A	80degC 300V 8X26AWG 6.0dia BLK / GRY	N/A
Conector	DDK	Model CM04T-8DJ8PB	N/A
	HIROSE-DENKI	Model A3B-10D-2C(Socket)	N/A
	HIROSE-DENKI	Model A3B-10PA-2DAS(71) (Plug)	N/A
Filter material for Emitter	MITSUBISHI LAYON	PMMA , ACRYPET PF-072(It is used for lens)	N/A
		PMMA , DELPET FIL B72	

Prüfbericht Nr. / Test Report No.:

70032744

Ort/place: Kyoto, Japan

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Projektleiter / Project manager:

Stempel und Unterschrift / OMRON CORPORATION

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Aufbauübersicht für Elektrogeräte und Maschinen

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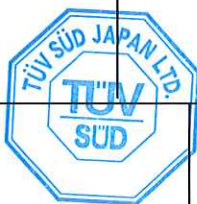
Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)

(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschränken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)

Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers)

Bauteil/ Kind of component	Hersteller/ Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/ Information about type, current, power, transformer specification number, insulating class	Prüfzeichen von Test mark from (VDE, BSI, UL etc.)
< Functional safety related components > CPU	RENESAS	M30291FAHP/M30291FATHP/ M30281FAHP	N/A



Prüfbericht Nr. / Test Report No.:

70032744

Ort / place: Kyoto, Japan

Datum / date: 12, June, 2015

Projektleiter / Project manager:

Stempel und Unterschrift / OMRON CORPORATION

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Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)

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Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers)

Bauteil/ Kind of component	Hersteller/ Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/ Information about type, current, power, transformer specification number, insulating class	Prüfzeichen von Test mark from (VDE, BSI, UL etc.)
<Hardware release> See Electrical drawing	list of SLC_W (Document No. AST1-049112 Rev. W)		
<Software release> Emitter = Version 2.24 (CRC= 0x5F6F, Check SUM = 0xF592), Receiver = Version 2.23 (CRC = 0xA7A2, Check SUM = 0x 5409) ,			

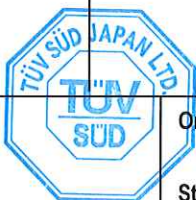
Prüfbericht Nr. / Test Report No.:

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Projektleiter / Project manager:

Ort/place: Kyoto, Japan

Datum/date: 12, June, 2015



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ТАМОЖЕННЫЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель Общество с ограниченной ответственностью "Омрон Электроникс"

125040, Российская Федерация, г. Москва, ул. Правды, д. 26, тел. +74956489452, факс +74956489451, E-mail: omron_russia@eu.omron.com, ОГРН 1067746976582

в лице Руководителя отдела логистики Перепелкиной Натальи Александровны, действующего на основании Доверенности б/н от 28.10.2013 г.

заявляет, что Световые барьеры безопасности торговой марки "Omron", серии: F3x, F3xx, F3xxx, MSxxxx, MSxxxxx, где "x" – цифры от 0 до 9, буквы от A до Z, обозначающие исполнение изделия.

изготовитель: Фирма "OMRON CORPORATION", Shiokoji Horikawa, Shimogyo-ku, KYOTO, 600-8530, Япония

Заводы фирмы-изготовителя см. приложение № 1

Стандарты, нормативные документы: Европейская директива 2004/108/ЕС.

Код ТН ВЭД ТС: 8541409009

Серийный выпуск

соответствует требованиям

ТР ТС 020/2011 "Электромагнитная совместимость технических средств"

Декларация о соответствии принята на основании

Протокол испытаний № 4/01-12 от 13.01.2014 г. - ИЛ ООО "Микрон" (Аттестат аккредитации № РОСС RU.0001.21AB72 до 19.08.2016 г.), 143000, Московская область, г. Одинцово, ул. Маршала Жукова, д. 9. Сертификат системы менеджмента качества ISO 9001:2008 № RQA660983 от 01.06.2012 г., выданный OCCK "LRQA", Нидерланды.

Дополнительная информация

Условия хранения продукции в соответствии с ГОСТ 15150-69. Условия хранения конкретного изделия, срок хранения (службы) указываются в прилагаемой к продукции товаросопроводительной и/или эксплуатационной документации.

Декларация о соответствии действительна с даты регистрации по 12.01.2019 включительно.



Перепелкина Наталья Александровна

(инициалы и фамилия руководителя организации-заявителя или физического лица, зарегистрированного в качестве индивидуального предпринимателя)

Сведения о регистрации декларации о соответствии:

TS No. RU D-JP.AE30.B.01538

Регистрационный номер декларации о соответствии: ТС № RU Д-JP.АИ30.В.01538

Дата регистрации декларации о соответствии: 14.01.2014

ТАМОЖЕННЫЙ СОЮЗ

ПРИЛОЖЕНИЕ № 1 лист 1

К ДЕКЛАРАЦИИ О СООТВЕТСТВИИ ТС № RU Д-JP.АИ30.В.01538

Перечень предприятий изготовителей продукции, на которую распространяется действие
декларации о соответствии, входящих в состав транснациональной компании

Полное наименование предприятия-изготовителя	Адрес (место нахождения)
"OMRON CORPORATION"	Shiokoji Horikawa, Shimogyo-ku, KYOTO, 600-8530, Япония;
"Omron Electronic Components (Shenzhen) Ltd."	Omron Industrial Park, Taiyang Village, Pingshan Town, Longgang District, Shenzhen 518118, Китай;
"Omron Electronics Manufacturing of Germany GmbH"	Carl-Benz-Str. 4, 71154, Nufringen, Германия;
"OMRON Manufacturing of the Netherlands B.V."	Zilverenberg 2, 5234 GM' s – Hertogenbosch, Нидерланды;
"OMRON MALAYSIA SDN. BHD."	Lot 15, SS8/4 Sg.Way F.I.Z. 47300 P.J. Selangor, Малайзия;
"Omron Manufacturing of Indonesia (OMI)"	Lemahabang, Ejip Industrial Park, Plot 5C, Bekasi, 17550, Индонезия;
"OMRON ELECTRONICS S.P.A."	Viale Certosa, 49 20149 Milano, Италия;
"Omron Electronics Iberia S.A.U."	с/Hernández de Tejada, 9 28027 Madrid, Испания.
"Omron Electronics Ltd"	Opal Drive, Fox Milne, Milton Keynes, MK15 0DG, Соединенное Королевство Великобритании и Северной Ирландии;
"YASKAWA Electric UK Limited"	1 Hunt Hill Orchardton Woods Cumbernauld Scotland, G68 9LF, Соединенное Королевство Великобритании и Северной Ирландии.



Заявитель


подпись

Перепелкина Наталья
Александровна

инициалы, фамилия



NIPF.E199694 Active Opto-electronic Protective Devices

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Active Opto-electronic Protective Devices

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OMRON CORP

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SAFETY STANDARDS GROUP
IAB GLOBAL QUALITY CENTER
SHIOKOJI HORIKAWA
SHIMOGYO-KU, KYOTO 600-8530 JAPAN

Control unit, Model F3SP-B1P.

Type 2 or type 4 light curtain systems+, emitters and receivers, Model F3SJ, followed by Blank or 2, followed by E or B, followed by 0185-2065, followed by N, P or -, followed by 25, may be followed by L or D, may be followed by additional suffixes.

Type 4 control unit, Model+ F3SX followed by N, E, H, M, NR, ER, HR, MR, followed by R, R1, R2, L1, L2, L4, M1, D1, P1, P2 and B1, followed by additional suffixes.

Type 2 single beam system, Model+ E3FS-10, for use only with the Model F3SX control unit.

Type 2 or type 4 light curtain, Models+ F3SJ-A or F3SJ-2A, followed by 0245-2495, followed by P or N, followed by 14, 20, 25, 30, 35, 55 or 65, may be followed by L or D, may be followed by TS, 01TS, 01T, may be followed by additional suffixes.

Model F3SJ-AM+, followed by 2-4, followed by P or N, followed by 300, 400 or 500, may be followed by L or D, may be followed by additional suffixes.

Type 2 single beam sensor, Model + E3ZS followed by T, followed by 8, followed by 1, followed by A, followed by D, L or blank, followed by additional suffixes.

Type 4 light curtain systems+, emitters and receivers, Model F3SN-A followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters; Model F3SH-A followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SN-B followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SH-B followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 and type 4 light curtain system, Model F3SR followed by 2 or 4, followed by 30, followed by B, followed by four numbers, may be followed by L or D, may be followed by additional numbers and/or letters.

Type 4 and type 2 light curtain system, Model F3SG, followed by 2 or 4, followed by R; followed by E or A, followed by 0160-2510, followed by P, N or -, followed by 30, 14, may be followed by L or D, may be followed by additional suffixes.

End cap accessory, Model F39, followed by LP, BT or BTLP.

+ Also complies with UL 1998, the Standard for Safety Related Software.

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E199694

SAFETY STANDARDS GROUP

IAB GLOBAL QUALITY CENTER

SHIOKOJI HORIKAWA

SHIMOGYO-KU, KYOTO 600-8530 JAPAN

Control unit, Model F3SP-B1P.

Type 2 or type 4 light curtain systems+, emitters and receivers, Model F3SJ, followed by Blank or 2, followed by E or B, followed by 0185-2065, followed by N, P or -, followed by 25, may be followed by L or D, may be followed by additional suffixes.

Type 4 control unit, Model+ F3SX, followed by N, E, H, M, NR, ER, HR, MR, followed by R, R1, R2, L1, L2, L4, M1, D1, P1, P2 and B1, followed by additional suffixes.

Type 2 single beam system, Model+ E3FS-10, for use only with the Model F3SX control unit.

Type 2 or type 4 light curtain, Models+ F3SJ-A or F3SJ-2A, followed by 0245-2495, followed by P or N, followed by 14, 20, 25, 30, 35, 55 or 65, may be followed by L or D, may be followed by TS, 01TS, 01T, may be followed by additional suffixes.

Model F3SJ-AM+, followed by 2-4, followed by P or N, followed by 300, 400 or 500, may be followed by L or D, may be followed by additional suffixes.

Type 2 single beam sensor, Model + E3ZS followed by T, followed by 8, followed by 1, followed by A, followed by D, L or blank, followed by additional suffixes.

Type 4 light curtain systems+, emitters and receivers, Model F3SN-A followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters; Model F3SH-A followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SN-B followed by xxxx, followed by P or N, followed by 12, 14, 25, 40, 55 or 70, may be followed by S, SS, H, HS or HSS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 light curtain systems+, emitters and receivers, Model F3SH-B followed by xx, followed by P or N, followed by xx, may be followed by S or SS, followed by L, D or blank, may be followed by additional numbers and/or letters.

Type 2 and type 4 light curtain system, Model F3SR followed by 2 or 4, followed by 30, followed by B, followed by four numbers, may be followed by L or D, may be followed by additional numbers and/or letters.

Type 4 and type 2 light curtain system, Model F3SG, followed by 2 or 4, followed by R; followed by E or A, followed by 0160-2510, followed by P, N or -, followed by 30, 14, may be followed by L or D, may be followed by additional suffixes.

End cap accessory, Model F39, followed by LP, BT or BTLP.

+ Also complies with UL 1998, the Standard for Safety Related Software.

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